



Wired Series

- Large Screens (20", 19")..... 148 – 163, 184 – 195
- Medium Screens (10", 7) ..... 164 – 179, 196 – 207, 227 – 230
- Smaller Screens (5")..... 223 – 226
- Small Screens (4.3") ..... 180 – 183, 217 – 222

Wireless Series

- Smaller Screens (5.2")..... 208 – 213

Wired - Wireless Series

- Medium Screens (9") ..... 214 – 216

Virtual Touch Panels..... 231 – 234

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# TOUCH PANELS



# A WORLD OF CHOICES

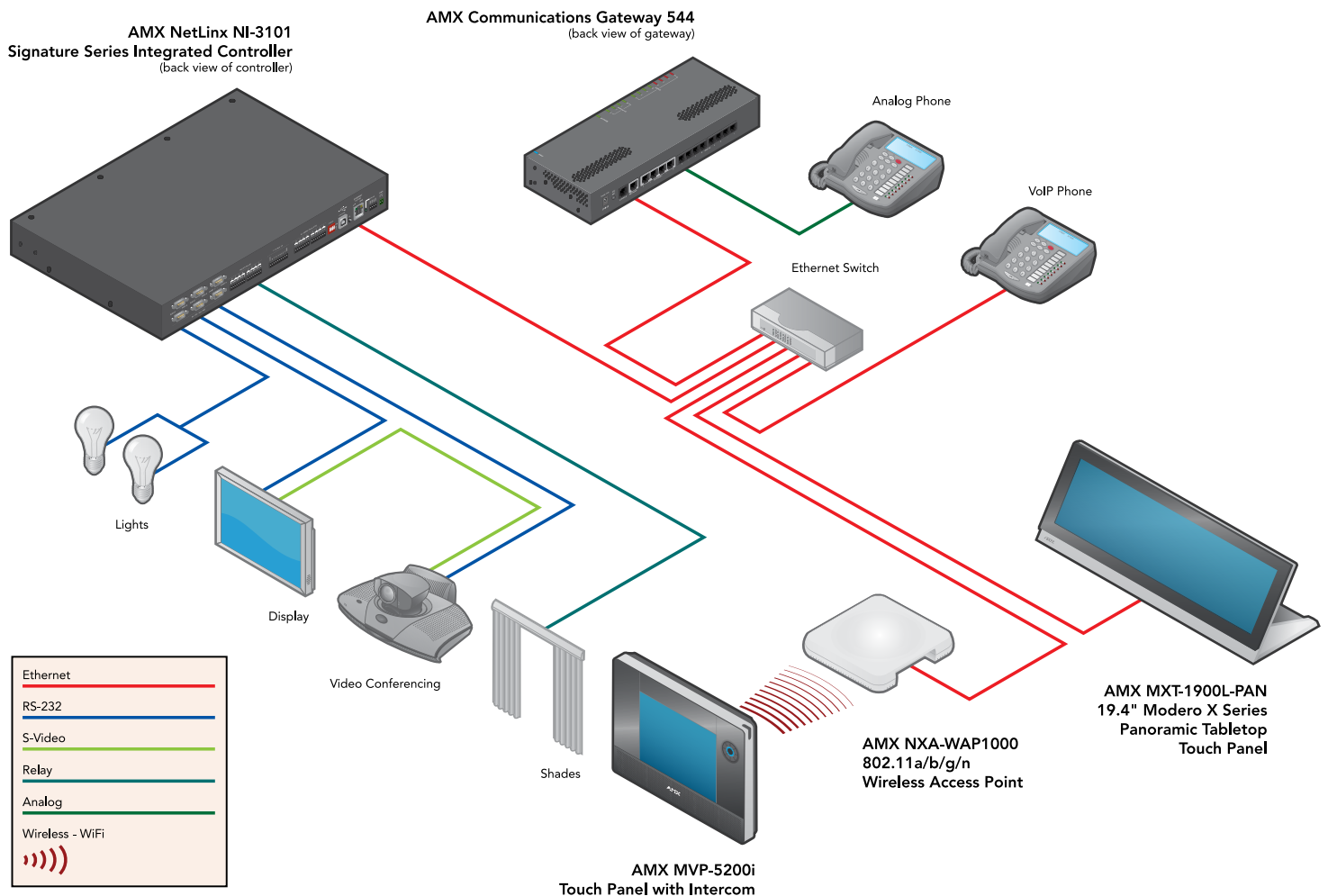
## Touch Panels are Where Commands Simply Start

AMX Modero® Touch Panels are an award-winning family consistently recognized throughout the industry as the most powerful and stylish user interfaces on the market. The Modero Touch Panel line includes a broad range of products to satisfy any environment and budget. They include state-of-the-art video capabilities offering bright, high contrast, high resolution color displays in a variety of sizes. These powerful products simplify the management of an endless number of devices from custom graphic user interfaces providing an elegant, easy to use central point of control. Our wireless touch panels give the

### SYSTEM DIAGRAM

Our Modero Touch Panels with integrated intercom and telephone calling capability provide a central point of control over environmental conditions and can be used to make phone calls to anyone in the world when used with the AMX Communications

Gateway. Integrated 802.11b/g wireless capability gives users the freedom to control their system from just about anywhere in the residence or facility



user the freedom to control systems from anywhere powered by innovative low-energy consuming batteries. In addition, a growing number of Modero touch panels are now intercom and telephone enabled (via VoIP) so the presenter can call a help desk at the push of a button – or a homeowner can answer the door or telephone from the anywhere in the house from the touch panel.



#### Key Touch Panel Features

For the latest in graphics, look no further than every AMX Touch Panel. Every Modero ships with a demo showing some of the graphic possibilities. You can also download the same file at <http://www.amx.com/ui>



#### Touch Panels Brochure

Want to see our Touch Panels in action? Just visit <http://www.amx.com/assets/literature/TP.Brochure.pdf> to download the latest literature.

# MODERO® SERIES TOUCH PANELS

## Touch Panels Specifications / Capabilities Comparison Chart

		WIRELESS						
		5150	5200i	9000i	430	435	430 Modero X Series Wall	
PHYSICAL DESIGN FEATURES	Dimensions (HWD)	4 5/8" x 7 1/2" x 3/4" (11.7 cm x 19.1 cm x 2.0 cm)	4 5/8" x 7 1/2" x 3/4" (11.7 cm x 19.1 cm x 2.0 cm)	7 5/8" x 11" x 1 1/16" (19.4 cm x 27.9 cm x 2.7 cm) (11.7 cm x 19.1 cm x 2.0 cm)	4.13" x 5.5" x 2.13" (10.48 cm x 13.97 cm x 5.40 cm)	4.13" x 5.5" x 2.13" (10.48 cm x 13.97 cm x 5.40 cm)	Portrait Only: 4 7/8" x 3 1/4" x 2 3/8" (120 mm x 82 mm x 61 mm)	
	Native Resolution (Pixels) / Aspect Ratio	800 x 480 / 16:9 / WVGA (HV) @ 60 Hz frame frequency	800 x 480 / 16:9 / WVGA (HV) @ 60 Hz frame frequency	800 x 480 / 16:9 / WVGA (HV) @ 60 Hz frame frequency	480 x 272 / 16:9 / WQVGA (HV) @ 60 Hz frame frequency	480 x 272 / 16:9 / WQVGA (HV) @ 60 Hz frame frequency	480 x 800 / 9:16 / WVGA (HV) @ 60 Hz frame frequency	
	Screen Dimensions (Diagonal)	5.1"	5.1"	9.0"	4.3"	4.3"	4.3"	
	External Buttons / Navigation	0 / No	0 / YES	4 / YES	1 / No	5 / No	0 / No	
	Speaker / Microphone	1 / No	1 / Yes	1 / Yes	0 / No	0 / No	1 / Yes	
	Motion & Light Sensors / IR Receiver	No / No	No / No	No / No	No / No	No / No	Yes / No	
	KickStand	No	Yes	Yes	NA	NA	NA	
	Stylus	Included	Included	Included	NA	NA	NA	
	USB Keyboard / Mouse Input	Yes	Yes	Yes	Yes	Yes	Yes	
	VESA Mount Kit	NA	NA	NA	NA	NA	No	
	Wall Rough In Box (Conduit / Back)	Optional Rough-In Box (for wall charging station)	Optional Rough-In Box (for wall charging station)	Optional Rough-In Box (for wall charging station)	Yes	Yes	Yes	
POWER	Portrait (P) / Landscape (L) Mode	No	No	P/L	P/L	P/L	P	
	Rack Mount Kit	No	No	No	Yes	Yes	No	
	Recommended Power Supply	PS3.0 Power Supply (Included)	PS3.0 Power Supply (Included)	PS3.0 Power Supply (Included)	NA	NA	NA	
	PoE	NA	NA	Yes for docking stations	Yes	Yes	Yes	
BATTERY LIFE	Battery Life (Normal Use / Continuous Use)*	4 Days / 6 Hours	4 Days / 6 Hours	3 Days / 5 Hours	NA	NA	NA	
	Average Energy Consumption Savings using RMS* Continuous Use / Normal Use = Energy Consumption Savings	80% Potential Savings	80% Potential Savings	83% Potential Savings	80% Potential Savings	80% Potential Savings	80% Potential Savings	
AUDIO CAPABILITIES	Intercom (VoIP)	No	Yes	Yes	No	No	Yes	
	Telephone (Requires SIP Communication Gateway)	No	Yes	Yes	No	No	Yes	
	Analog Audio Output Jack	Yes	Yes	Yes	Yes	Yes	Yes	
	MP3 and WAV File Playback	No	Yes	Yes	No	No	Yes	
VIDEO CAPABILITIES	Full Motion JPEG (Dynamic images frames/sec) - Security Camera Viewing	No	24	24	No	No	24	
	Composite (Requires Breakout Box)	No	No	No	No	No	Yes	
	RGB & Component (Requires Breakout Box)	No	No	No	No	No	Yes	
	MPEG-2 & MPEG-4 Video Streams	No	Yes	Yes	No	No	Yes	
MEM. ORY. FLASH	Dynamic Images - Cover Art Display	Yes	Yes	Yes	Yes	Yes	Yes	
	Standard SDRAM Memory (MB)	128 MB Mobile DDRAM	128 MB Mobile DDRAM	256 MB Mobile DDRAM	128 MB Mobile DDRAM	128 MB Mobile DDRAM	512 MB Mobile DDRAM	
CONTROL COMMUNICATIONS METHODS	Standard FLASH Storage (MB)	256 MB NAND FLASH	256 MB NAND FLASH	2GB FLASH	256 MB NAND FLASH	256 MB NAND FLASH	4GB FLASH	
	IR (One Way Communication)	Yes	Yes	Yes	No	No	No	
	10/100 Ethernet (Two Way Communication)	No	No	Yes	Yes	Yes	Yes	
	802.11g w/Internal Antenna (Two Way Communication)	Yes	Yes	Yes (802.11a/b/g)	No	No	No	
ALTERNATIVE INTEGRATION APPLICATIONS	AMXhome (web-based programming and more)	Yes	Yes	Yes	Yes	Yes	Yes	
	AMXmeetingroom (system configuration from the touch panel)	No	Yes	Yes	No	No	Yes	
ADDITIONAL FEATURES	Integrated Camera	No	No	No	No	No	No	
	Multi-touch	No	No	No	No	No	Yes	
	Near Field Communications (NFC) Ready	No	No	No	No	No	Yes	
	In-plane Switching Display (wide viewing angles)	No	No	Yes	No	No	Yes	
	Bluetooth (optional)	No	No	No	No	No	Yes	
	Geatures/Page Transitions	Yes/ Yes	Yes/ Yes	Yes/Yes	No	No	Yes / Yes	
	International Font Rendering	Yes	Yes	Yes	Yes	Yes	Yes	

Average Energy Consumption Savings using RMS\*

## WIRED

	700 Modero X Series Table Top	700 Modero X Series Wall	1000 Modero X Series Table Top	1000 Modero X Series Wall	1900 Modero X Series Table Top	1900 Modero X Series Wall	2000 Modero X Series Table Top	2000 Modero X Series Wall
	5" x 7 5/16" x 4 1/8" (126 mm x 187 mm x 105 mm)	Landscape: 6 11/16" x 9 7/8" x 2 5/8" (171 mm x 252 mm x 67 mm), Portrait: 9 7/8" x 6 11/16" x 2 5/8" (252 mm x 171 mm x 67 mm)	6 14/16" x 9 14/16" x 4 14/16" (174 mm x 252 mm x 124 mm)	Landscape: 6 11/16" x 9 7/8" x 2 5/8" (171 mm x 252 mm x 67 mm), Portrait: 9 7/8" x 6 11/16" x 2 5/8" (252 mm x 171 mm x 67 mm)	7" x 20 3/8" x 5 5/16" (177 mm x 519 mm x 135 mm)	Landscape: 6 7/8" x 20 3/8" x 11/16" (175 mm x 519 mm x 19 mm) Portrait: 20 3/8" x 6 7/8" x 11/16" (519 mm x 175 mm x 19 mm)	9 3/16" x 20 3/8" x 5 7/8" (235 mm x 519 mm x 150 mm)	Landscape: 9 1/2" x 20 3/8" x 11/16" (242 mm x 519 mm x 19 mm) Portrait: 20 3/8" x 9 1/2" x 11/16" (519 mm x 242 mm x 19 mm)
	800 x 480 / 16:9/ WVGA (HV) @ 60 Hz frame frequency	800 x 480 / 16:9/ WVGA (HV) @ 60 Hz frame frequency	1280 x 800 / 16:9/ WVGA (HV) @ 60 Hz frame frequency	1280 x 800 / 16:9/ WVGA (HV) @ 60 Hz frame frequency	1920x530 / 32:9/ Panoramic (HV) @ 60 Hz frame frequency	1920x530 / 32:9/ Panoramic (HV) @ 60 Hz frame frequency	1920 x 800 /12:5/ Panoramic (HV) @ 60 Hz frame frequency	1920 x 800 /12:5/ Panoramic (HV) @ 60 Hz frame frequency
	7"	7"	10.1"	10.1"	19.4"	19.4"	20.3"	20.3"
	0/ No	0/ No	0/ No	0/ No	0/ No	0/ No	0/ No	0/ No
	1/Yes	1/Yes	1/Yes	1/Yes	1/Yes	1/Yes	1/Yes	1/Yes
	Yes /No	Yes /No	Yes /No	Yes /No	Yes /No	Yes /No	Yes /No	Yes /No
	NA	NA	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA	NA	NA
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	No	No	No	No	No	No	No	No
	No	Yes	No	Yes	No	Yes	No	Yes
	No	P/L	No	P/L	No	P/L	No	P/L
	No	No	No	No	No	No	No	No
	NA	NA	NA	NA	PSN4.4 Power Supply (Optional)	PSN4.4 Power Supply (Optional)	PSN4.4 Power Supply (Optional)	PSN4.4 Power Supply (Optional)
	Yes	Yes	Yes	Yes	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA	NA	NA
	82% Potential Savings	82% Potential Savings	82% Potential Savings	82% Potential Savings	85% Potential Savings	85% Potential Savings	85% Potential Savings	85% Potential Savings
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	24	24	24	24	24	24	24	24
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	512 MB Mobile DDRAM	512 MB Mobile DDRAM	512 MB Mobile DDRAM	512 MB Mobile DDRAM	512 MB Mobile DDRAM	512 MB Mobile DDRAM	512 MB Mobile DDRAM	512 MB Mobile DDRAM
	4GB FLASH	4GB FLASH	4GB FLASH	4GB FLASH	4GB FLASH	4GB FLASH	4GB FLASH	4GB FLASH
	No	No	No	No	No	No	No	No
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	No	No	No	No	No	No	No	No
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	No	No	No	No	Yes	No	Yes	No
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Yes / Yes	Yes / Yes	Yes / Yes	Yes / Yes	Yes / Yes	Yes / Yes	Yes / Yes	Yes / Yes
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Updated 8.26.2011

1920 x 800  
panoramic screen  
Resolution

# MXT-2000XL-PAN

## 20.3" Modero X Series® Panoramic Tabletop Touch Panel

(FG5968-01)



### OVERVIEW

See more and do more with the most elegant interface designed specifically for dedicated room control. The Modero X Series Touch Panels provide several industry firsts including a beautiful, panoramic capacitive multi-touch screen that provides users access to multiple applications with minimal navigation. It is hardware-ready for support of Near Field Communication™ (NFC) Technology to allow personalization of the user experience and productivity enhancing capabilities through integration with NFC capable personal devices. The distinctive, low-profile design is engineered to sit perfectly on a table without obstructing views. Modero X Series is the control surface that simply delivers more.

### COMMON APPLICATION

The MXT-2000XL-PAN is ideal for boardrooms, conference rooms or auditoriums where a panoramic control surface is needed to provide access to multiple functions simultaneously while remaining elegantly unobtrusive. In residences, it is perfect for kitchens, home theaters or home offices where the panoramic control surface can be used to manage systems throughout the home.

### FEATURES

- **Panoramic Control Surface** – Combined with the new PanTastic UI, the panoramic touch panels take the user experience to a whole new level with an impressive control surface to perform activities much in the same way you use a computer – multi-tasking with dedicated spaces
- **Latest Communication Technologies** – HD video chat and conferencing using integrated camera (tabletop and landscape versions only) and supports Near Field Communication (NFC) – short-range wireless technologies that deliver peer-to-peer communication by 'sharing, pairing and transaction' between RF devices like exchanging data/identities
- **Enhanced Usability** – External phone connections via Bluetooth or USB and HD video streaming

- **Graphic Leaps & Bounds** – The Modero X Series includes intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities
- **Perfect From Any Angle** – Includes In-Plane Switching (IPS), the latest technology in popular tablet/mobile devices that delivers the widest viewing angles and the most accurate color reproduction on the market

### DEALER BENEFITS

- **Attract More Corporate Customers** – The elegant design and simple beauty of the Modero X Series will create demand from both new and current customers
- **Address Unique Requirements** – With a panoramic profile, the Modero X Series provides dealers with a solution for unique uses where multiple applications must be viewed simultaneously
- **Differentiate Yourself** – The Modero X Series offers design and technology features unmatched in the industry

### CUSTOMER BENEFITS

- **Multi-Task Capability** – The contemporary design provides a large control surface, which allows multiple views for different activities such as presenting, controlling and previewing
- **Simple to Use Interfaces** – The capacitive multi-touch and gesture-based screen combined with intuitive user-interfaces makes it easy for anyone to operate sophisticated meeting room equipment
- **Sleek, Low-Profile Design** – The Modero X Series is engineered to sit perfectly on a table without obstructing views



All On **280kWh** or Average Usage **40kWh** + Sleep Mode **2kWh** = Estimated Usage **42kWh**

ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION

**AMX Energy Savings 85%**  
ANNUAL ENERGY SAVINGS USING RMS & SMART PROGRAMMING



#### HELPFUL HINT

The Modero X Series features intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities.



#### WATCH THE VIDEO

For an inside look at the features, technical capabilities and benefits of our touch panels, just visit our Modero X Series 'Videos By Category' playlist at: [youtube.com/amxtalk](http://youtube.com/amxtalk) and for "how-to" videos, visit 'Videos By Category' at: [youtube.com/amxconfigure](http://youtube.com/amxconfigure).



#### TRAINING AVAILABLE

For important installation, configuration and programming techniques, AMX University training is available. Just visit [www.amx.com/training](http://www.amx.com/training)



#### AWARD WINNER

- Winner of rAve's Best of Infocomm 2012 Awards - Best New Control System Hardware Product: **AMX's Modero X Series Touch Panels**
- Winner of Commercial Integrator's BEST Awards - Touchscreens: **Modero X Series Touch Panel (20.3")**



#### D-TOOLS CERTIFIED PRODUCT

This product can be found in the D-Tools manufacturer product database and specified as a third party device when building and proposing a system using D-Tools System Integrator software.



#### REVIT BIM

This product is part of the Autodesk Revit database and can be specified in designs for Building Information Modeling (BIM). Download the associated Revit .rfa file from the Autodesk SEEK Web site. It is also searchable under 'AMX' in any Autodesk application.



#### COUNTRY OF ORIGIN: MEXICO

To satisfy the requirements/regulations of existing or future government programs, this two-letter code is being provided to designate the country of origin for this product.

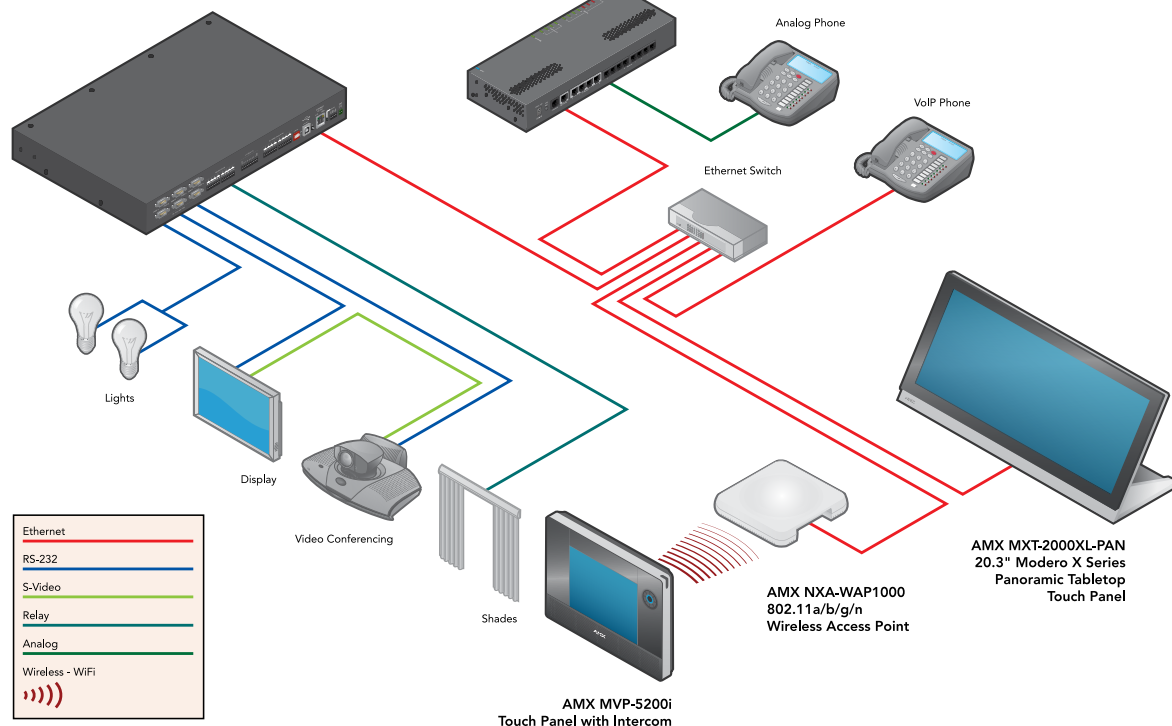


#### G4 TECHNOLOGY

This product features AMX's exclusive, powerful G4 graphics engine – the driving force behind the advanced graphics and image processing capability on a variety of AMX Touch Panels and other devices.

AMX NetLinX NI-3101  
Signature Series Integrated Controller  
(back view of controller)

AMX Communications Gateway 544  
(back view of gateway)



## SPECIFICATIONS

## DIMENSIONS (HWD)

9 3/16" x 20 3/8" x 5 7/8" (235 mm x 519 mm x 150 mm)

## WEIGHT

12.2 lbs (5.53 Kg)

## POWER CONSUMPTION

- Full-On: 32W (12 VDC, 2.7 A)
- Standby: 3.10 W (12 VDC, 0.3 A)
- Start-Up Inrush Current: 40 A for 80  $\mu$ sec

## EXTERNAL POWER SUPPLY REQUIRED

Requires one of these AMX power sources (not included):

- PSN4.4 Power Supply, 4.4 A, 3.5 mm Phoenix, 13.5 VDC (FG423-45)
- MXA-MPL Modero X Series Multi Preview Live (FG5968-10)
- MXA-MP Modero X Series Multi Preview (FG5968-20)

## CERTIFICATIONS

- FCC Part 15 Class B
- C-Tick CISPR 22 Class B
- CE EN 55022 Class B and EN 55024
- CB Scheme IEC 60950-1
- IC
- IEC/EN-60950
- RoHS/WEEE compliant

## TOUCH SCREEN DISPLAY

- Display Type: TFT Active Matrix Color LCD with In-plane Switching Technology (IPS)
- Display Size (WH): 20.4" x 9.5" (519 mm x 242 mm), 21.3" (541 mm) diagonal
- Viewable Area (WH): 18.7" x 7.8" (475 mm x 198 mm), 20.3" (514 mm) diagonal
- Resolution: 1920x800
- Aspect Ratio: 12:5
- Brightness: 250 cd/m<sup>2</sup>
- Contrast Ratio: 1000:1
- Color Depth: 16.7M colors
- Illumination: LED
- Touch Overlay: Projected capacitive, multi-touch support, 3 simultaneous max

## VIEWING ANGLE

- Vertical:  $\pm 89^\circ$
- Horizontal:  $\pm 89^\circ$

## MEMORY

- SDRAM: 512 MB
- Flash: 4 GB
- Maximum Project Size: 2.4 GB flash available to user

## COMMUNICATIONS

- Ethernet: 10/100 port, RJ-45 connector. Supported IP and IP-based protocols: UCP, TCP, ICMP, ICSP, IGMP, DHCP, Telnet, FTP, DNS, RFB (for VNC), HTTP
- USB:
  - (3) USB host 2.0, Type A ports: Firmware upgrade, touch panel file transfer, JPEG image viewer, HID peripherals, USB audio output for headsets
  - (1) Micro-USB device port: video output from on-board camera, USB audio from on-board microphone to host device
- Near Field Communication (NFC): Supports standards ISO/IEC 15693, ISO/IEC 14443A, ISO/IEC 14443B; Unique Identifier (UID), typ range=.25", max = .5"
- Bluetooth:
  - Mouse/Keyboard: HID Profile v1.1, requires MXA-BT Bluetooth Adapter (FG5968-19)
  - Handset: Hands Free Profile v1.5, Headset Profile v1.2, requires MXA-BT Bluetooth Adapter (FG5968-19) and MXA-HST Bluetooth Handset (FG5968-17)

## VIDEO

- Supported Video Codecs:
  - MPEG-2-TS: MPEG-2 Main Profile @High Level up to 720p at 25 fps (decode only)
  - MPEG-2-TS: H.264 High Profile @Layer 4, AAC-LC up to 720p at 25 fps (encode/decode)
  - MJPEG up to 720p at 25 fps (decode only)
- Supported Video Transport Streams: MPEG-TS for MPEG-2 and H.264, HTTP for MJPEG
- Max Number of Active Video Streams: One decode plus one encode
- Video Output: Camera video output: H.264, up to 720p@25 fps via Micro-USB port only (controlled by host device)
- Video Conferencing: Panel-to-panel and video chat

## AUDIO

- Microphone: -42 dB  $\pm$  3 dB sensitivity FET microphone
- Speakers: 4 ohm, 2 Watt, 300 Hz cutoff frequency
- Supported Audio Codecs:
  - MP2 Layer I and II, MP3 (8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz)
  - AAC-LC (8 kHz, 96 kHz)
  - G.711 with  $\mu$ Law (VoIP encode/decode at 8 kHz)
- Audio Output: USB Audio out Micro-USB port only (controlled by host device)
- File Formats: WAV, MP3 (as part of touch panel file only - no USB storage)
- Intercom: Full Duplex VoIP, SIP v2.0 (supported with AMX-CSG)

## GRAPHICS ENGINE

- AMX G4: G4 enhanced feature set supporting multi-touch and gestures, scrolling, transitions - See TPD4 Operations Guide for more information

## EMBEDDED APPLICATIONS

- Remote Management: VNC Server, G4 Web Control, AMX Resource Management Suite
- Video Conferencing: Panel-to-panel and video chat
- Conferencing: Audio (Full Duplex Intercom)

## FRONT PANEL COMPONENTS

- Light Sensor: Photosensitive light detector for automatic adjustment of the panel brightness
- Proximity Detector: Max range = ~3', typ range = ~1', FOV = ~10 degrees
- Camera: HD 720p camera for video conferencing/video chat support
- LED Indicators: Camera active indicator (models with camera only)
- Sleep Button: Sleep button to activate sleep mode and powering off. Also provides access to setup pages (can be disabled)

## CONNECTIONS

- Ethernet: 10/100 port, RJ-45 connector
- USB:
  - (3) USB host 2.0, Type A ports
  - (1) Micro-USB device port
- Power: 2 pin, locking 3.5mm Phoenix connector

## ENVIRONMENTAL

- Temperature (Operating): 32° F to 104° F (0° C to 40° C)
- Temperature (Storage): 4° F to 140° F (-20° C to 60° C)
- Humidity (Operating): 20% to 85% RH
- Humidity (Storage): 5% to 85% RH
- Power ("Heat") Dissipation:
  - On: 109.2 BTU/hr
  - Standby: 10.6 BTU/hr

## INCLUDED ACCESSORIES

- Locking 2-pin Phoenix mate (41-0002-SA)
- MXA-USB-C, USB Port Cover Kit, Modero X Series Touch Panel (FG5968-18)
- HPG-10-10K, 3/4" Mini-Grommet (FG570-01)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)

## OPTIONAL ACCESSORIES

- MXA-MP, Modero X Series Multi Preview (FG5968-20)
- MXA-MPL, Modero X Series Multi Preview Live (FG5968-10)
- PSN4.4, Power Supply, 4.4 A, 3.5 mm Phoenix, 13.5 VDC (FG423-45)
- HPG-10-10K, 3/4" Mini-Grommet, 10-Pack (FG570-01-10K)
- MXA-BT, Bluetooth USB Adapter for Modero X Series (FG5968-19)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)
- MXA-USB-C, USB Port Covers for the Modero X Series Touch Panels (FG5968-18)
- MXA-HST, Bluetooth Handset for Modero X Series Touch Panels (FG5968-17)
- CSG, Communications Gateway (FG2182-01,-02,-03)

## RECOMMENDED ACCESSORIES

## DESCRIPTION

## PART #

## PAGE #

MXA-MP	Modero X Series Multi Preview	(FG5968-20)	316
MXA-MPL	Modero X Series Multi Preview Live	(FG5968-10)	314
PSN4.4	Power Supply, 4.4 A, 3.5 mm Phoenix, 13.5 VDC	(FG423-45)	334
HPG-10-10K	3/4" Mini-Grommet, 10-Pack	(FG570-01-10K)	137
MXA-BT	Bluetooth USB Adapter for Modero X Series	(FG5968-19)	318
MXA-CLK	Modero X Series Screen Cleaning Kit	(FG5968-16)	319
MXA-USB-C	USB Port Covers for the Modero X Series Touch Panels	(FG5968-18)	320
MXA-HST	Bluetooth Handset for Modero X Series Touch Panels	(FG5968-17)	319
CSG	Communications Gateway	(FG2182-01,-02,-03)	430



# MXD-2000XL-PAN

## 20.3" Modero X Series® Panoramic Wall Touch Panel

Portrait Wall Mount Touch Panel (FG5968-05)

Landscape Wall Mount Touch Panel (FG5968-11)



### OVERVIEW

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### COMMON APPLICATION

The MXD-2000XL-PAN is ideal for boardrooms, conference rooms or auditoriums where a panoramic control surface is needed to provide access to multiple functions simultaneously while remaining elegantly unobtrusive. In residences, it is perfect for kitchens, home theaters or home offices where the panoramic control surface can be used to manage systems throughout the house.

### FEATURES

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- **Enhanced Usability** – External phone connections via Bluetooth or USB and HD video streaming

1920 x 800, 800 x 1920  
panoramic screen  
Resolution



- **Graphic Leaps & Bounds** – The Modero X Series includes intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities
- **Perfect From Any Angle** – Includes In-Plane Switching (IPS), the latest technology in popular tablet/mobile devices that delivers the widest viewing angles and the most accurate color reproduction on the market

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- **Differentiate Yourself** – The Modero X Series offers design and technology features unmatched in the industry

### CUSTOMER BENEFITS

- **Multi-Task Capability** – The contemporary design provides a large control surface, which allows multiple views for different activities such as presenting, controlling and previewing
- **Simple to Use Interfaces** – The capacitive multi-touch and gesture-based screen combined with intuitive user-interfaces makes it easy for anyone to operate sophisticated meeting room equipment
- **Choose Horizontal or Vertical Orientation** – The 20.3" Modero X Series Panoramic Wall Touch Panel has models engineered to mount horizontally or vertically giving design flexibility for specific applications such as room scheduling, digital signage or access for people with disabilities



All On **280kWh** or Average Usage **40kWh** + Sleep Mode **2kWh** = Estimated Usage **42kWh**  
ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION

**AMX Energy Savings**  
**85%**  
 ANNUAL ENERGY SAVINGS USING RMS & SMART PROGRAMMING



#### HELPFUL HINT

The Modero X Series features intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities.



#### WATCH THE VIDEO

For an inside look at the features, technical capabilities and benefits of our touch panels, just visit our Modero X Series 'Videos By Category' playlist at: [youtube.com/amxtalk](http://youtube.com/amxtalk) and for "how-to" videos, visit 'Videos By Category' at: [youtube.com/amxconfigure](http://youtube.com/amxconfigure).



#### TRAINING AVAILABLE

For important installation, configuration and programming techniques, AMX University training is available. Just visit [www.amx.com/training](http://www.amx.com/training)



#### AWARD WINNER

- Winner of rAve's Best of Infocomm 2012 Awards - Best New Control System Hardware Product: **AMX's Modero X Series Touch Panels**
- Winner of Commercial Integrator's BEST Awards - Touchscreens: **Modero X Series Touch Panel (20.3")**



#### D-TOOLS CERTIFIED PRODUCT

This product can be found in the D-Tools manufacturer product database and specified as a third party device when building and proposing a system using D-Tools System Integrator software.



#### REVIT BIM

This product is part of the Autodesk Revit database and can be specified in designs for Building Information Modeling (BIM). Download the associated Revit .rfa file from the Autodesk SEEK Web site. It is also searchable under 'AMX' in any Autodesk application.



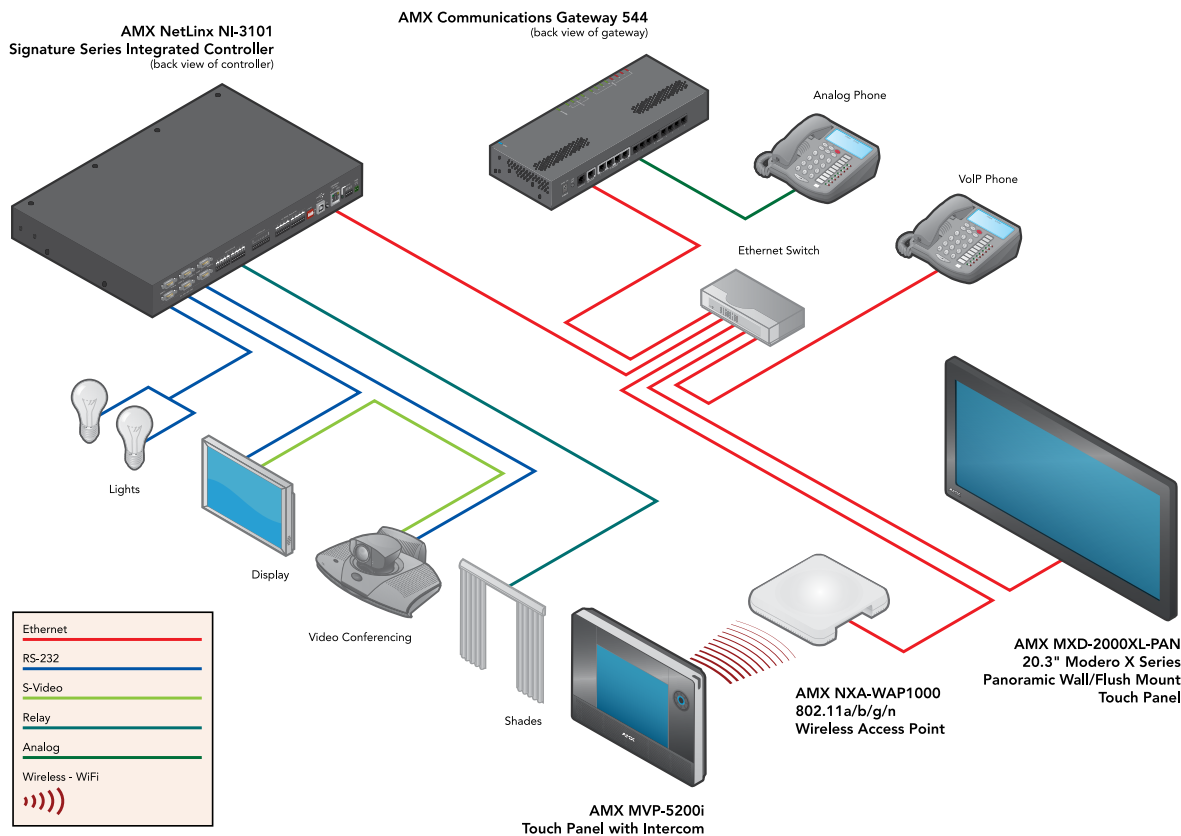
#### COUNTRY OF ORIGIN: MEXICO

To satisfy the requirements/regulations of existing or future government programs, this two-letter code is being provided to designate the country of origin for this product.



#### G4 TECHNOLOGY

This product features AMX's exclusive, powerful G4 graphics engine – the driving force behind the advanced graphics and image processing capability on a variety of AMX Touch Panels and other devices.



## SPECIFICATIONS

## DIMENSIONS (HWD)

Landscape: 9 1/2" x 20 3/8" x 11/16" (242 mm x 519 mm x 19 mm)

Portrait: 20 3/8" x 9 1/2" x 11/16" (519 mm x 242 mm x 19 mm)

## WEIGHT

9.1 lbs (4.13 Kg)

## POWER CONSUMPTION

- Full-On: 32W (12 VDC, 2.7 A)
- Standby: 3.10 W (12 VDC, 0.3 A)
- Start-Up Inrush Current: 40 A for 80  $\mu$ sec

## EXTERNAL POWER SUPPLY REQUIRED

Requires one of these AMX power sources (not included):

- PSN4.4 Power Supply, 4.4 A, 3.5 mm Phoenix, 13.5 VDC (FG423-45)
- MXA-MPL Modero X Series Multi Preview Live (FG5968-10)
- MXA-MP Modero X Series Multi Preview (FG5968-20)

## CERTIFICATIONS

- FCC Part 15 Class B
- C-Tick CISPR 22 Class B
- CE EN 55022 Class B and EN 55024
- CB Scheme IEC 60950-1
- IC
- IEC/EN-60950
- RoHS/WEEE compliant

## TOUCH SCREEN DISPLAY

- Display Type: TFT Active Matrix Color LCD with In-plane Switching Technology (IPS)
- Display Size (WH)
  - Landscape: 20.4" x 9.5" (519 mm x 242 mm), 21.3" (541 mm) diagonal
  - Portrait: 9.5" x 20.4" (242 mm x 519 mm), 21.3" (541 mm) diagonal
- Viewable Area (WH)
  - Landscape 18.7" x 7.8" (475 mm x 198 mm), 20.3" (514 mm) diagonal
  - Portrait 7.8" x 18.7" (198 mm x 475 mm), 20.3" (514 mm) diagonal
- Resolution
  - Landscape: 1920x800
  - Portrait: 800x1920
- Aspect Ratio
  - Landscape: 12:5
  - Portrait: 5:12
- Brightness: 250 cd/m<sup>2</sup>
- Contrast Ratio: 1000:1
- Color Depth: 16.7M colors
- Illumination: LED
- Touch Overlay: Projected capacitive, multi-touch support, 3 simultaneous max

## VIEWING ANGLE

- Vertical:  $\pm 89^\circ$
- Horizontal:  $\pm 89^\circ$

## MEMORY

- SDRAM: 512 MB
- Flash: 4 GB
- Maximum Project Size: 2.4 GB flash available to user

## COMMUNICATIONS

- Ethernet: 10/100 port, RJ-45 connector. Supported IP and IP-based protocols: UCP, TCP, ICMP, ICSP, IGMP, DHCP, Telnet, FTP, DNS, RFB (for VNC), HTTP
- USB:
  - (2) USB host 2.0, Type A ports (1 with limited physical access requiring right angle connection): Firmware upgrade, touch panel file transfer, JPEG image viewer, HID peripherals, USB audio output for headsets
  - (1) Micro-USB device port: video output from on-board camera (Landscape Touch Panel Only), USB audio from on-board microphone to host device
- Near Field Communication (NFC): Supports standards ISO/IEC 15693, ISO/IEC 14443A, ISO/IEC 14443B; Unique Identifier (UID), typ range=.25", max = .5"
- Bluetooth:
  - Mouse/Keyboard: HID Profile v1.1, requires MXA-BT Bluetooth Adapter (FG5968-19)
  - Handset: Hands Free Profile v1.5, Headset Profile v1.2, requires MXA-BT Bluetooth Adapter (FG5968-19) and MXA-HST Bluetooth Handset (FG5968-17)

## VIDEO

- Supported Video Codecs, Landscape Model (FG5968-11):
  - MPEG-2-TS: MPEG-2 Main Profile@High Level up to 720p at 25 fps (decode only)
  - MPEG-2-TS: H.264 High Profile@Layer 4, AAC-LC up to 720p at 25 fps (encode/decode)
  - MJPEG up to 720p at 25 fps (decode only)
- Supported Video Codecs, Portrait Model (FG5968-05):
  - MPEG-2-TS: MPEG-2 Main Profile@High Level up to 720p at 25 fps (decode only)
  - MPEG-2-TS: H.264 High Profile@Layer 4, AAC-LC up to 720p at 25 fps (decode)
  - MJPEG up to 720p at 25 fps (decode only)
- Supported Video Transport Streams: MPEG-TS for MPEG-2 and H.264; HTTP for MJPEG
- Max Number of Active Video Streams:
  - Portrait: One decode
  - Landscape: One decode plus one encode
- Video Conferencing, Landscape Model (FG5968-11): Panel-to-panel and video chat

- Video Conferencing, Portrait Model (FG5968-05): Panel-to-panel and video chat (portrait wall mount receives video and returns audio)
- Video Output, Landscape Model Only (FG5968-11): Camera video output: H.264, up to 720p@25 fps via Micro-USB port only (controlled by host device)

#### AUDIO

- Microphone: -42 dB  $\pm$  3 dB sensitivity FET microphone
- Speakers: 4 ohm, 2 Watt, 300 Hz cutoff frequency
- Supported Audio Codecs:
  - MP2 Layer I and II, MP3 (8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz)
  - AAC-LC (8 kHz, 96 kHz)
  - G.711 with  $\mu$ Law (VoIP encode/decode at 8 kHz)
- Audio Output: USB Audio out Micro-USB port (head/hand set support)
- File Formats: WAV, MP3 (as part of touch panel file only - no USB storage)
- Intercom: Full Duplex VoIP, SIP v2.0 (supported with AMX-CSG)

#### GRAPHICS ENGINE

- AMX G4: G4 enhanced feature set supporting multi-touch and gestures, scrolling, transitions - See TPD4 Operations Guide for more information

#### EMBEDDED APPLICATIONS

- Remote Management: VNC Server, G4 Web Control, AMX Resource Management Suite
- Video Conferencing: Panel-to-panel and video chat (portrait wall mount receives video and returns audio)
- Conferencing: Audio (Full Duplex Intercom)

#### FRONT PANEL COMPONENTS

- Light Sensor: Photosensitive light detector for automatic adjustment of the panel brightness
- Proximity Detector: Max range = ~3', typ range = ~1', FOV = ~10 degrees
- Camera, Landscape Model Only (FG5968-11): HD 720p camera for video conferencing/video chat support
- LED Indicators: Camera active indicator (models with camera only)
- Sleep Button: Sleep button to activate sleep mode and powering off. Also provides access to setup pages (can be disabled)

#### CONNECTIONS

- Ethernet: 10/100 port, RJ-45 connector
- USB:
  - (2) USB host 2.0, Type A ports
  - (1) Micro-USB device port
- Power: 2-pin, locking 3.5mm Phoenix connector

#### ENVIRONMENTAL

- Temperature (Operating): 32° F to 104° F (0° C to 40° C)
- Temperature (Storage): 4° F to 140° F (-20° C to 60° C)
- Humidity (Operating): 20% to 85% RH
- Humidity (Storage): 5% to 85% RH
- Power ("Heat") Dissipation:
  - On: 109.2 BTU/hr
  - Standby: 10.6 BTU/hr

#### INCLUDED ACCESSORIES

- Locking 2-pin Phoenix mate (41-0002-SA)
- MXA-USB-C, USB Port Cover Kit, Modero X Series Touch Panel (FG5968-18)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)
- Wall Template 20" (68-5968-01)

#### OPTIONAL ACCESSORIES

- MXA-MP, Modero X Series Multi Preview (FG5968-20)
- MXA-MPL, Modero X Series Multi Preview Live (FG5968-10)
- PSN4.4, Power Supply, 4.4 A, 3.5 mm Phoenix, 13.5 VDC (FG423-45)
- CB-MXP19/20, Rough-In Box, Modero X Series Touch Panel, Panoramic 19/20 (FG039-15)
- MXA-BT, Bluetooth USB Adapter for Modero X Series (FG5968-19)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)
- MXA-USB-C, USB Port Covers for the Modero X Series Touch Panels (FG5968-18)
- MXA-HST, Bluetooth Handset for Modero X Series Touch Panels (FG5968-17)
- CSG, Communications Gateway (FG2182-01,-02,-03)

#### RECOMMENDED ACCESSORIES

	DESCRIPTION	PART #	PAGE #
MXA-MP	Modero X Series Multi Preview	(FG5968-20)	316
MXA-MPL	Modero X Series Multi Preview Live	(FG5968-10)	314
PSN4.4	Power Supply, 4.4 A, 3.5 mm Phoenix, 13.5 VDC	(FG423-45)	334
CB-MXP19/20	Rough-In Box, Modero X Series Touch Panel, Panoramic 19/20	(FG039-15)	320
MXA-BT	Bluetooth USB Adapter for Modero X Series	(FG5968-19)	318
MXA-CLK	Modero X Series Screen Cleaning Kit	(FG5968-16)	319
MXA-USB-C	USB Port Covers for the Modero X Series Touch Panels	(FG5968-18)	320
MXA-HST	Bluetooth Handset for Modero X Series Touch Panels	(FG5968-17)	319
CSG	Communications Gateway	(FG2182-01,-02,-03)	430

**1920 x 530**  
panoramic screen  
Resolution

# MXT-1900L-PAN

## 19.4" Modero X Series® Panoramic Tabletop Touch Panel

(FG5968-02)



### OVERVIEW

See more and do more with the most elegant interface designed specifically for dedicated room control. The Modero X Series Touch Panels provide several industry firsts including a beautiful, panoramic capacitive multi-touch screen that provides users access to multiple applications with minimal navigation. It is hardware-ready for support of Near Field Communication™ (NFC) Technology to allow personalization of the user experience and productivity enhancing capabilities through integration with NFC capable personal devices. The distinctive, low-profile design is engineered to sit perfectly on a table without obstructing views. Modero X Series is the control surface that simply delivers more.

### COMMON APPLICATION

The MXT-1900L-PAN is ideal for boardrooms, conference rooms or auditoriums where a panoramic control surface is needed to provide access to multiple functions simultaneously while remaining elegantly unobtrusive. In residences, it is perfect for kitchens, home theaters or home offices where the panoramic control surface can be used to manage systems throughout the house.

### FEATURES

- **Panoramic Control Surface** – Combined with the new PanTastic UI, the panoramic touch panels take the user experience to a whole new level with an impressive control surface to perform activities much in the same way you use a computer – multi-tasking with dedicated spaces
- **Latest Communication Technologies** – HD video chat and conferencing using integrated camera (tabletop and landscape versions only) and supports Near Field Communication (NFC) – short-range wireless technologies that deliver peer-to-peer communication by 'sharing, pairing and transaction' between RF devices like exchanging data/identities
- **Enhanced Usability** – External phone connections via Bluetooth or USB and HD video streaming

- **Graphic Leaps & Bounds** – The Modero X Series features intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities
- **Perfect From Any Angle** – Includes In-Plane Switching (IPS), the latest technology in popular tablet/mobile devices that delivers the widest viewing angles and the most accurate color reproduction on the market

### DEALER BENEFITS

- **Attract More Corporate Customers** – The elegant design and simple beauty of the Modero X Series will create demand from both new and current customers
- **Address Unique Requirements** – With a panoramic profile, the Modero X Series provides dealers with a solution for unique uses where multiple applications must be viewed simultaneously
- **Differentiate Yourself** – The Modero X Series offers design and technology features unmatched in the industry

### CUSTOMER BENEFITS

- **Multi-Task Capability** – The contemporary design provides a large control surface, which allows multiple views for different activities such as presenting, controlling and previewing
- **Simple to Use Interfaces** – The capacitive multi-touch and gesture-based screen combined with intuitive user-interfaces makes it easy for anyone to operate sophisticated meeting room equipment
- **Sleek, Low-Profile Design** – The Modero X Series is engineered to sit perfectly on a table without obstructing views



All On **280kWh** or Average Usage **40kWh** + Sleep Mode **2kWh** = Estimated Usage **42kWh**  
ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION

**AMX Energy Savings**  
**85%**  
ANNUAL ENERGY SAVINGS USING RMS & SMART PROGRAMMING



#### HELPFUL HINT

The Modero X Series features intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities.



#### WATCH THE VIDEO

For an inside look at the features, technical capabilities and benefits of our touch panels, just visit our Modero X Series 'Videos By Category' playlist at: [youtube.com/amxtalk](http://youtube.com/amxtalk) and for "how-to" videos, visit 'Videos By Category' at: [youtube.com/amxconfigure](http://youtube.com/amxconfigure).



#### TRAINING AVAILABLE

For important installation, configuration and programming techniques, AMX University training is available. Just visit [www.amx.com/training](http://www.amx.com/training)



#### AWARD WINNER

- Winner of rAve's Best of Infocomm 2012 Awards - Best New Control System Hardware Product: **AMX's Modero X Series Touch Panels**
- Winner of Commercial Integrator's BEST Awards - Touchscreens: **Modero X Series Touch Panel (20.3")**



#### D-TOOLS CERTIFIED PRODUCT

This product can be found in the D-Tools manufacturer product database and specified as a third party device when building and proposing a system using D-Tools System Integrator software.



#### REVIT BIM

This product is part of the Autodesk Revit database and can be specified in designs for Building Information Modeling (BIM). Download the associated Revit .rfa file from the Autodesk SEEK Web site. It is also searchable under 'AMX' in any Autodesk application.



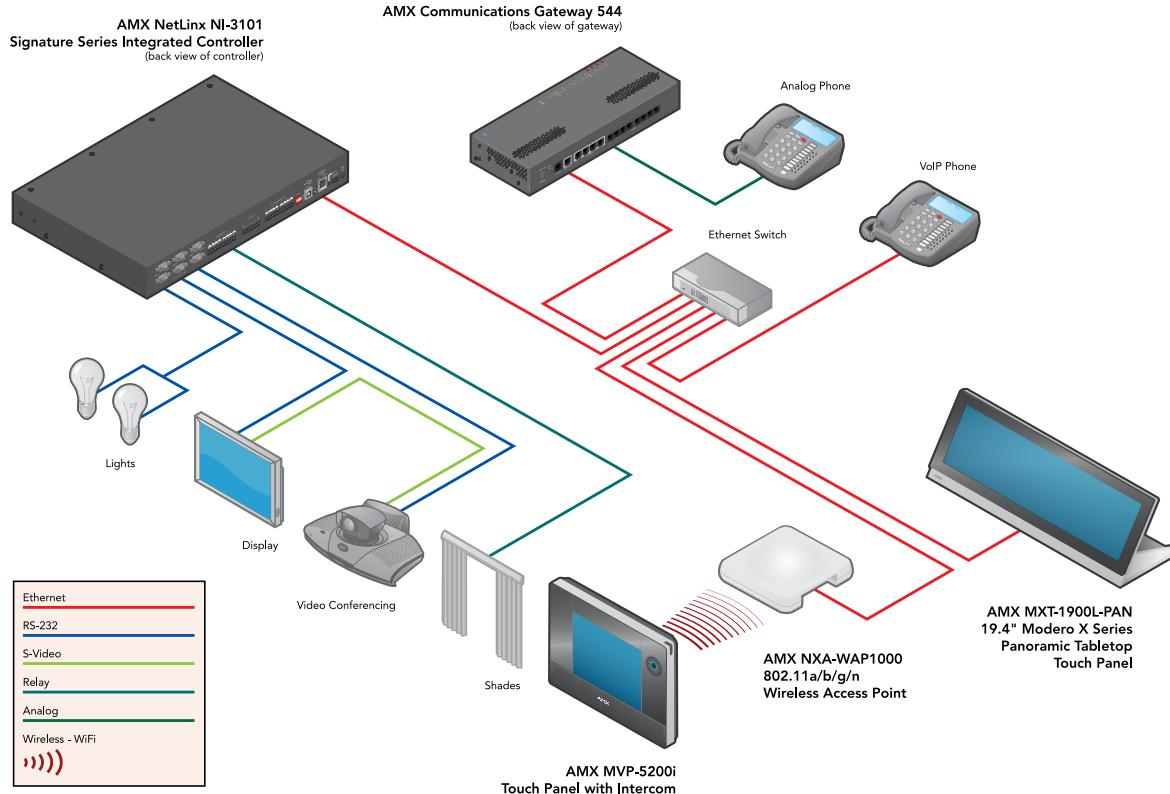
#### COUNTRY OF ORIGIN: MEXICO

To satisfy the requirements/regulations of existing or future government programs, this two-letter code is being provided to designate the country of origin for this product.



#### G4 TECHNOLOGY

This product features AMX's exclusive, powerful G4 graphics engine – the driving force behind the advanced graphics and image processing capability on a variety of AMX Touch Panels and other devices.





## SPECIFICATIONS

## DIMENSIONS (HWD)

7" x 20 3/8" x 5 5/16" (177 mm x 519 mm x 135 mm)

## WEIGHT

9.4 lbs (4.26 Kg)

## POWER CONSUMPTION

- Full-On: 32W (12 VDC, 2.7 A)
- Standby: 3.10 W (12 VDC, 0.3 A)
- Start-Up Inrush Current: 40 A for 80  $\mu$ sec

## EXTERNAL POWER SUPPLY REQUIRED

Requires one of these AMX power sources (not included):

- PSN4.4 Power Supply, 4.4 A, 3.5 mm Phoenix, 13.5 VDC (FG423-45)
- MXA-MPL Modero X Series Multi Preview Live (FG5968-10)
- MXA-MP Modero X Series Multi Preview (FG5968-20)

## CERTIFICATIONS

- FCC Part 15 Class B
- C-Tick CISPR 22 Class B
- CE EN 55022 Class B and EN 55024
- CB Scheme IEC 60950-1
- IC
- IEC/EN-60950
- RoHS/WEEE compliant

## TOUCH SCREEN DISPLAY

- Display Type: TFT Active Matrix Color LCD with In-plane Switching Technology (IPS)
- Display Size (WH): Landscape 20.4" x 6.9" (519 mm x 175 mm), 20.4" (518 mm) diagonal
- Viewable Area (WH): Landscape 18.7" x 5.9" (475 mm x 151 mm), 19.4" (493 mm) diagonal
- Resolution: Landscape 1920x530
- Aspect Ratio: Landscape 18:5
- Brightness: 350 cd/m<sup>2</sup>
- Contrast Ratio: 1000:1
- Color Depth: 16.7M colors
- Illumination: LED
- Touch Overlay: Projected capacitive, multi-touch support, 3 simultaneous max

## VIEWING ANGLE

- Vertical:  $\pm 89^\circ$
- Horizontal:  $\pm 89^\circ$

## MEMORY

- SDRAM: 512 MB
- Flash: 4 GB
- Maximum Project Size: 2.4 GB flash available to user

## COMMUNICATIONS

- Ethernet: 10/100 port, RJ-45 connector. Supported IP and IP-based protocols: UCP, TCP, ICMP, ICSP, IGMP, DHCP, Telnet, FTP, DNS, RFB (for VNC), HTTP
- USB:
  - (3) USB host 2.0, Type A ports: Firmware upgrade, touch panel file transfer, JPEG image viewer, HID peripherals, USB audio output for headsets
  - (1) Micro-USB device port: video output from on-board camera, USB audio from on-board microphone to host device
- Near Field Communication (NFC): Supports standards ISO/IEC 15693, ISO/IEC 14443A, ISO/IEC 14443B; Unique Identifier (UID), typ range=.25", max = .5"
- Bluetooth:
  - Mouse/Keyboard: HID Profile v1.1, requires MXA-BT Bluetooth Adapter (FG5968-19)
  - Handset: Hands Free Profile v1.5, Headset Profile v1.2, requires MXA-BT Bluetooth Adapter (FG5968-19) and MXA-HST Bluetooth Handset (FG5968-17)

## VIDEO

- Supported Video Codecs:
  - MPEG-2-TS: MPEG-2 Main Profile @High Level up to 720p at 25 fps (decode only)
  - MPEG-2-TS: H.264 High Profile @Layer 4, AAC-LC up to 720p at 25 fps (encode/decode)
  - MJPEG up to 720p at 25 fps (decode only)
- Supported Video Transport Streams: MPEG-TS for MPEG-2 and H.264, HTTP for MJPEG
- Max Number of Active Video Streams: One decode plus one encode
- Video Output: Camera video output: H.264, up to 720p@25 fps via Micro-USB port only (controlled by host device)
- Video Conferencing: Panel-to-panel and video chat

## AUDIO

- Microphone: -42 dB  $\pm$  3 dB sensitivity FET microphone
- Speakers: 4 ohm, 2 Watt, 300 Hz cutoff frequency
- Supported Audio Codecs:
  - MP2 Layer I and II, MP3 (8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz)
  - AAC-LC (8 kHz, 96 kHz)
  - G.711 with  $\mu$ Law (VoIP encode/decode at 8 kHz)
- Audio Output: USB Audio out USB port (head/hand set support)
- File Formats: WAV, MP3 (as part of touch panel file only - no USB storage)
- Intercom: Full Duplex VoIP, SIP v2.0 (supported with AMX-CSG)

## GRAPHICS ENGINE

- AMX G4: G4 enhanced feature set supporting multi-touch and gestures, scrolling, transitions - See TPD4 Operations Guide for more information

## EMBEDDED APPLICATIONS

- Remote Management: VNC Server, G4 Web Control, AMX Resource Management Suite
- Video Conferencing: Panel-to-panel and video chat
- Conferencing: Audio (Full Duplex Intercom)

## FRONT PANEL COMPONENTS

- Light Sensor: Photosensitive light detector for automatic adjustment of the panel brightness
- Proximity Detector: Max range = ~3', typ range = ~1', FOV = ~10 degrees
- Camera: HD 720p camera for video conferencing/video chat support
- LED Indicators: Camera active indicator (models with camera only)
- Sleep Button: Sleep button to activate sleep mode and powering off. Also provides access to setup pages (can be disabled)

## CONNECTIONS

- Ethernet: 10/100 port, RJ-45 connector
- USB:
  - (3) USB host 2.0, Type A ports
  - (1) Micro-USB device port
- Power: 2 pin, locking 3.5mm Phoenix connector

## ENVIRONMENTAL

- Temperature (Operating): 32° F to 104° F (0° C to 40° C)
- Temperature (Storage): 4° F to 140° F (-20° C to 60° C)
- Humidity (Operating): 20% to 85% RH
- Humidity (Storage): 5% to 85% RH
- Power ("Heat") Dissipation:
  - On: 109.2 BTU/hr
  - Standby: 10.6 BTU/hr

## INCLUDED ACCESSORIES

- Locking 2-pin Phoenix mate (41-0002-SA)
- MXA-USB-C, USB Port Cover Kit, Modero X Series Touch Panel (FG5968-18)
- HPG-10-10K, 3/4" Mini-Grommet (FG570-01)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)

## OPTIONAL ACCESSORIES

- MXA-MP, Modero X Series Multi Preview (FG5968-20)
- MXA-MPL, Modero X Series Multi Preview Live (FG5968-10)
- PSN4.4, Power Supply, 4.4 A, 3.5 mm Phoenix, 13.5 VDC (FG423-45)
- HPG-10-10K, 3/4" Mini-Grommet, 10-Pack (FG570-01-10K)
- MXA-BT, Bluetooth USB Adapter for Modero X Series (FG5968-19)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)
- MXA-USB-C, USB Port Covers for the Modero X Series Touch Panels (FG5968-18)
- MXA-HST, Bluetooth Handset for Modero X Series Touch Panels (FG5968-17)
- CSG, Communications Gateway (FG2182-01,-02,-03)

## RECOMMENDED ACCESSORIES

## DESCRIPTION

## PART #

## PAGE #

MXA-MP	Modero X Series Multi Preview	(FG5968-20)	316
MXA-MPL	Modero X Series Multi Preview Live	(FG5968-10)	314
PSN4.4	Power Supply, 4.4 A, 3.5 mm Phoenix, 13.5 VDC	(FG423-45)	334
HPG-10-10K	3/4" Mini-Grommet, 10-Pack	(FG570-01-10K)	137
MXA-BT	Bluetooth USB Adapter for Modero X Series	(FG5968-19)	318
MXA-CLK	Modero X Series Screen Cleaning Kit	(FG5968-16)	319
MXA-USB-C	USB Port Covers for the Modero X Series Touch Panels	(FG5968-18)	320
MXA-HST	Bluetooth Handset for Modero X Series Touch Panels	(FG5968-17)	319
CSG	Communications Gateway	(FG2182-01,-02,-03)	430



# MXD-1900L-PAN

## 19.4" Modero X Series® Panoramic Wall Touch Panel

Portrait Wall Mount Touch Panel (FG5968-06)

Landscape Wall Mount Touch Panel (FG5968-12)



1920 x 530, 530 x 1920  
panoramic screen  
Resolution

### OVERVIEW

See more and do more with the most elegant interface designed specifically for dedicated room control. The Modero X Series Touch Panels provide several industry firsts for control surfaces including a beautiful, panoramic capacitive multi-touch screen that provides users access to multiple applications with minimal navigation. It is hardware-ready for support of Near Field Communication™ (NFC) Technology to allow personalization of the user experience and productivity enhancing capabilities through integration with NFC capable personal devices. The panoramic design allows multiple functions simultaneously including digital signage. Modero X Series is the control surface that simply delivers more.

### COMMON APPLICATION

The MXD-1900L-PAN is ideal for boardrooms, conference rooms or auditoriums where a panoramic control surface is needed to provide access to multiple functions simultaneously while remaining elegantly unobtrusive. In residences, it is perfect for kitchens, home theaters or home offices where the panoramic control surface can be used to manage systems throughout the house.

### FEATURES

- **Panoramic Control Surface** – Combined with the new PanTastic UI, the panoramic touch panels take the user experience to a whole new level with an impressive control surface to perform activities much in the same way you use a computer – multi-tasking with dedicated spaces
- **Latest Communication Technologies** – HD video chat and conferencing using integrated camera (tabletop and landscape versions only) and supports Near Field Communication (NFC) – short-range wireless technologies that deliver peer-to-peer communication by 'sharing, pairing and transaction' between RF devices like exchanging data/identities
- **Enhanced Usability** – External phone connections via Bluetooth or USB and HD video streaming

- **Graphic Leaps & Bounds** – The Modero X Series features intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities
- **Perfect From Any Angle** – Includes In-Plane Switching (IPS), the latest technology in popular tablet/mobile devices that delivers the widest viewing angles and the most accurate color reproduction on the market

### DEALER BENEFITS

- **Attract More Corporate Customers** – The elegant design and simple beauty of the Modero X Series will create demand from both new and current customers
- **Address Unique Requirements** – With a panoramic profile, the Modero X Series provides dealers with a solution for unique uses where multiple applications must be viewed simultaneously
- **Differentiate Yourself** – The Modero X Series offers design and technology features unmatched in the industry

### CUSTOMER BENEFITS

- **Multi-Task Capability** – The contemporary design provides a large control surface, which allows multiple views for different activities such as presenting, controlling and previewing
- **Simple to Use Interfaces** – The capacitive multi-touch and gesture-based screen combined with intuitive user-interfaces makes it easy for anyone to operate sophisticated meeting room equipment
- **Choose Horizontal or Vertical Orientation** – The 19.4" Modero X Series Panoramic Wall Touch Panel has models engineered to mount horizontally or vertically giving design flexibility for specific applications such as room scheduling, digital signage or access for people with disabilities



All On **280kWh** or Average Usage **40kWh** + Sleep Mode **2kWh** = Estimated Usage **42kWh**  
ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION

**AMX Energy Savings**  
**85%**  
 ANNUAL ENERGY SAVINGS USING RMS & SMART PROGRAMMING



#### HELPFUL HINT

The Modero X Series features intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities.



#### WATCH THE VIDEO

For an inside look at the features, technical capabilities and benefits of our touch panels, just visit our Modero X Series 'Videos By Category' playlist at: [youtube.com/amxtalk](http://youtube.com/amxtalk) and for "how-to" videos, visit 'Videos By Category' at: [youtube.com/amxconfigure](http://youtube.com/amxconfigure).



#### TRAINING AVAILABLE

For important installation, configuration and programming techniques, AMX University training is available. Just visit [www.amx.com/training](http://www.amx.com/training)



#### AWARD WINNER

- Winner of rAve's Best of Infocomm 2012 Awards - Best New Control System Hardware Product: **AMX's Modero X Series Touch Panels**
- Winner of Commercial Integrator's BEST Awards - Touchscreens: **Modero X Series Touch Panel (20.3")**



#### D-TOOLS CERTIFIED PRODUCT

This product can be found in the D-Tools manufacturer product database and specified as a third party device when building and proposing a system using D-Tools System Integrator software.



#### REVIT BIM

This product is part of the Autodesk Revit database and can be specified in designs for Building Information Modeling (BIM). Download the associated Revit .rfa file from the Autodesk SEEK Web site. It is also searchable under 'AMX' in any Autodesk application.



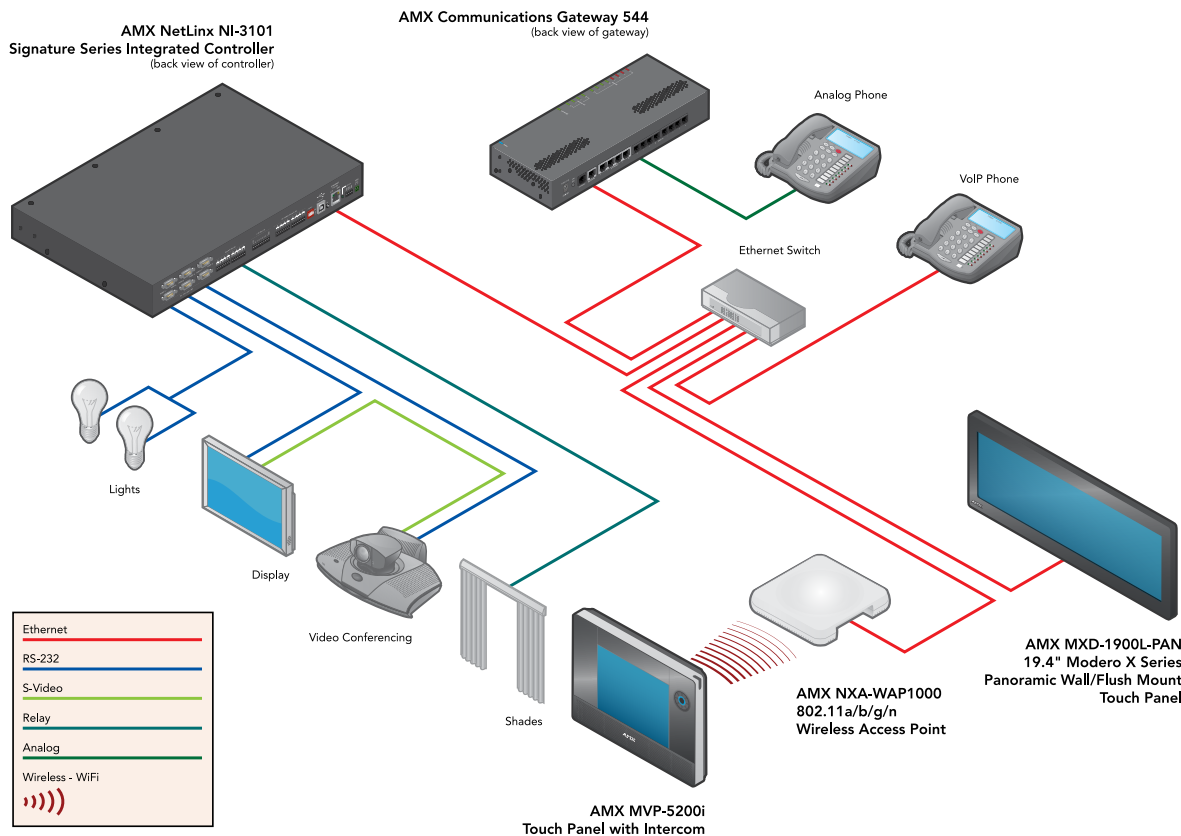
#### COUNTRY OF ORIGIN: MEXICO

To satisfy the requirements/regulations of existing or future government programs, this two-letter code is being provided to designate the country of origin for this product.



#### G4 TECHNOLOGY

This product features AMX's exclusive, powerful G4 graphics engine – the driving force behind the advanced graphics and image processing capability on a variety of AMX Touch Panels and other devices.



## SPECIFICATIONS

## DIMENSIONS (HWD)

Landscape: 6 7/8" x 20 3/8" x 11/16" (175 mm x 519 mm x 19 mm)

Portrait: 20 3/8" x 6 7/8" x 11/16" (519 mm x 175 mm x 19 mm)

## WEIGHT

7.0 lbs (3.18 Kg)

## POWER CONSUMPTION

- Full-On: 32W (12 VDC, 2.7 A)
- Standby: 3.10 W (12 VDC, 0.3 A)
- Start-Up Inrush Current: 40 A for 80  $\mu$ sec

## EXTERNAL POWER SUPPLY REQUIRED

Requires one of these AMX power sources (not included):

- PSN4.4 Power Supply, 4.4 A, 3.5 mm Phoenix, 13.5 VDC (FG423-45)
- MXA-MPL Modero X Series Multi Preview Live (FG5968-10)
- MXA-MP Modero X Series Multi Preview (FG5968-20)

## CERTIFICATIONS

- FCC Part 15 Class B
- C-Tick CISPR 22 Class B
- CE EN 55022 Class B and EN 55024
- CB Scheme IEC 60950-1
- IC
- IEC/EN-60950
- RoHS/WEEE compliant

## TOUCH SCREEN DISPLAY

- Display Type: TFT Active Matrix Color LCD with In-plane Switching Technology (IPS)
- Display Size (WH)
  - Landscape: 20.4" x 6.9" (519 mm x 175 mm), 20.4" (518 mm) diagonal
  - Portrait: 6.9" x 20.4" (175 mm x 519 mm), 20.4" (518 mm) diagonal
- Viewable Area (WH)
  - Landscape: 18.7" x 5.9" (475 mm x 151 mm), 19.4" (493 mm) diagonal
  - Portrait: 5.9" x 18.7" (151 mm x 475 mm), 19.4" (493 mm) diagonal
- Resolution
  - Landscape: 1920x530
  - Portrait: 530x1920
- Aspect Ratio
  - Landscape: 18:5
  - Portrait: 5:18
- Brightness: 350 cd/m<sup>2</sup>
- Contrast Ratio: 1000:1
- Color Depth: 16.7M colors
- Illumination: LED
- Touch Overlay: Projected capacitive, multi-touch support, 3 simultaneous max

## VIEWING ANGLE

- Vertical:  $\pm 89^\circ$
- Horizontal:  $\pm 89^\circ$

## MEMORY

- SDRAM: 512 MB
- Flash: 4 GB
- Maximum Project Size: 2.4 GB flash available to user

## COMMUNICATIONS

- Ethernet: 10/100 port, RJ-45 connector. Supported IP and IP-based protocols: UCP, TCP, ICMP, ICSP, IGMP, DHCP, Telnet, FTP, DNS, RFB (for VNC), HTTP
- USB:
  - (2) USB host 2.0, Type A ports (1 with limited physical access requiring right angle connection): Firmware upgrade, touch panel file transfer, JPEG image viewer, HID peripherals, USB audio output for headsets
  - (1) Micro-USB device port: video output from on-board camera (Landscape Touch Panel Only), USB audio from on-board microphone to host device
- Near Field Communication (NFC): Supports standards ISO/IEC 15693, ISO/IEC 14443A, ISO/IEC 14443B; Unique Identifier (UID), typ range=.25", max = .5"
- Bluetooth:
  - Mouse/Keyboard: HID Profile v1.1, requires MXA-BT Bluetooth Adapter (FG5968-19)
  - Handset: Hands Free Profile v1.5, Headset Profile v1.2, requires MXA-BT Bluetooth Adapter (FG5968-19) and MXA-HST Bluetooth Handset (FG5968-17)

## VIDEO

- Supported Video Codecs, Landscape Model (FG5968-12):
  - MPEG-2-TS: MPEG-2 Main Profile@High Level up to 720p at 25 fps (decode only)
  - MPEG-2-TS: H.264 High Profile@Layer 4, AAC-LC up to 720p at 25 fps (encode/decode)
  - MJPEG up to 720p at 25 fps (decode only)
- Supported Video Codecs, Portrait Model (FG5968-06):
  - MPEG-2-TS: MPEG-2 Main Profile@High Level up to 720p at 25 fps (decode only)
  - MPEG-2-TS: H.264 High Profile@Layer 4, AAC-LC up to 720p at 25 fps (decode)
  - MJPEG up to 720p at 25 fps (decode only)
- Supported Video Transport Streams: MPEG-TS for MPEG-2 and H.264; HTTP for MJPEG
- Max Number of Active Video Streams:
  - Portrait: One decode
  - Landscape: One decode plus one encode
- Video Conferencing, Landscape Model (FG5968-12): Panel-to-panel and video chat

- Video Conferencing, Portrait Model (FG5968-05): Panel-to-panel and video chat (portrait wall mount receives video and returns audio)
- Video Output, Landscape Model Only (FG5968-12): Camera video output: H.264, up to 720p@25 fps via Micro-USB port only (controlled by host device)

## AUDIO

- Microphone: -42 dB  $\pm$  3 dB sensitivity FET microphone
- Speakers: 4 ohm, 2 Watt, 300 Hz cutoff frequency
- Supported Audio Codecs:
  - MP2 Layer I and II, MP3 (8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz)
  - AAC-LC (8 kHz, 96 kHz)
  - G.711 with  $\mu$ Law (VoIP encode/decode at 8 kHz)
- Audio Output: USB Audio out Micro-USB port (head/hand set support)
- File Formats: WAV, MP3 (as part of touch panel file only - no USB storage)
- Intercom: Full Duplex VoIP, SIP v2.0 (supported with AMX-CSG)

## GRAPHICS ENGINE

- AMX G4: G4 enhanced feature set supporting multi-touch and gestures, scrolling, transitions - See TPD4 Operations Guide for more information

## EMBEDDED APPLICATIONS

- Remote Management: VNC Server, G4 Web Control, AMX Resource Management Suite
- Video Conferencing: Panel-to-panel and video chat (portrait wall mount receives video and returns audio)
- Conferencing: Audio (Full Duplex Intercom)

## FRONT PANEL COMPONENTS

- Light Sensor: Photosensitive light detector for automatic adjustment of the panel brightness
- Proximity Detector: Max range = ~3', typ range = ~1', FOV = ~10 degrees
- Camera, Landscape Model Only (FG5968-12): HD 720p camera for video conferencing/video chat support
- LED Indicators: Camera active indicator (models with camera only)
- Sleep Button: Sleep button to activate sleep mode and powering off. Also provides access to setup pages (can be disabled)

## CONNECTIONS

- Ethernet: 10/100 port, RJ-45 connector
- USB:
  - (2) USB host 2.0, Type A ports
  - (1) Micro-USB device port
- Power: 2-pin, locking 3.5mm Phoenix connector

## ENVIRONMENTAL

- Temperature (Operating): 32° F to 104° F (0° C to 40° C)
- Temperature (Storage): 4° F to 140° F (-20° C to 60° C)
- Humidity (Operating): 20% to 85% RH
- Humidity (Storage): 5% to 85% RH
- Power ("Heat") Dissipation:
  - On: 109.2 BTU/hr
  - Standby: 10.6 BTU/hr

## INCLUDED ACCESSORIES

- Locking 2-pin Phoenix mate (41-0002-SA)
- MXA-USB-C, USB Port Cover Kit, Modero X Series Touch Panel (FG5968-18)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)
- Wall Template 19" (68-5968-02)

## OPTIONAL ACCESSORIES

- MXA-MP, Modero X Series Multi Preview (FG5968-20)
- MXA-MPL, Modero X Series Multi Preview Live (FG5968-10)
- PSN4.4, Power Supply, 4.4 A, 3.5 mm Phoenix, 13.5 VDC (FG423-45)
- CB-MXP19/20, Rough-In Box, Modero X Series Touch Panel, Panoramic 19/20 (FG039-15)
- MXA-BT, Bluetooth USB Adapter for Modero X Series (FG5968-19)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)
- MXA-USB-C, USB Port Covers for the Modero X Series Touch Panels (FG5968-18)
- MXA-HST, Bluetooth Handset for Modero X Series Touch Panels (FG5968-17)
- CSG, Communications Gateway (FG2182-01,-02,-03)

## RECOMMENDED ACCESSORIES

## DESCRIPTION

## PART #

## PAGE #

MXA-MP	Modero X Series Multi Preview	(FG5968-20)	316
MXA-MPL	Modero X Series Multi Preview Live	(FG5968-10)	314
PSN4.4	Power Supply, 4.4 A, 3.5 mm Phoenix, 13.5 VDC	(FG423-45)	334
CB-MXP19/20	Rough-In Box, Modero X Series Touch Panel, Panoramic 19/20	(FG039-15)	320
MXA-BT	Bluetooth USB Adapter for Modero X Series	(FG5968-19)	318
MXA-CLK	Modero X Series Screen Cleaning Kit	(FG5968-16)	319
MXA-USB-C	USB Port Covers for the Modero X Series Touch Panels	(FG5968-18)	320
MXA-HST	Bluetooth Handset for Modero X Series Touch Panels	(FG5968-17)	319
CSG	Communications Gateway	(FG2182-01,-02,-03)	430

1280 x 800  
widescreen  
Resolution

# MXT-1000

## 10.1" Modero X Series® Tabletop Touch Panel

(FG5968-03)



### OVERVIEW

The Modero X Series is the most elegant family of interfaces designed specifically for dedicated room control. This new generation of touch panels is built for usability offering edge-to-edge capacitive touch glass with multi-touch capabilities. It features advanced technology empowering users to operate AV equipment seamlessly, while providing the ultimate in audio and video quality. The distinctive appearance will complement even the most sophisticated meeting facilities and homes. With a lightning fast processor, brilliant graphics and enhanced capabilities, the Modero X Series is the control surface that simply delivers more.

### COMMON APPLICATION

The MXT-1000 is ideal for boardrooms, conference rooms or auditoriums where a control surface is needed to provide access to key functions. In residences, it is perfect for kitchens, home theaters or home offices where it can be used to manage systems throughout the home.

### FEATURES

- **Latest Communication Technologies** – Supports Near Field Communication (NFC) - short-range wireless technologies that deliver peer-to-peer communication by 'sharing, pairing and transaction' between RF devices like exchanging data/identities
- **Enhanced Usability** – External phone connections via Bluetooth or USB and HD video streaming
- **Graphic Leaps & Bounds** – The Modero X Series features intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities
- **Perfect From Any Angle** – Includes In-Plane Switching (IPS), the latest technology in popular tablet/mobile devices that delivers the widest viewing angles and the most accurate color reproduction on the market



### DEALER BENEFITS

- **Attract More Corporate Customers** – The elegant design and simple beauty of the Modero X Series will create demand from both new and current customers
- **Address Unique Requirements** – With edge-to-edge glass and capacitive touch, the Modero X Series Touch Panels provide dealers with a control surface that is unobtrusive and simple to use
- **Differentiate Yourself** – The Modero X Series offers design and technology features unmatched in the industry

### CUSTOMER BENEFITS

- **Simple to Use Interfaces** – The capacitive multi-touch and gesture-based screen makes it easy for anyone to operate sophisticated meeting room or home theater equipment
- **Range of Sizes** – The contemporary design with edge-to-edge glass is available in 4.3", 7", 10.1" as well as 19.4" and 20.3" panoramic sizes for applications in any room
- **Sleek, Low-Profile Design** – The Modero X Series is engineered to sit perfectly on a table without obstructing views



All On **70 kWh** or **10 kWh** + **2 kWh** = **12 kWh**  
ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION

**AMX Energy Savings**  
**82%**  
ANNUAL ENERGY SAVINGS USING RMS & SMART PROGRAMMING



#### HELPFUL HINT

The Modero X Series features intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities.



#### WATCH THE VIDEO

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#### TRAINING AVAILABLE

For important installation, configuration and programming techniques, AMX University training is available. Just visit [www.amx.com/training](http://www.amx.com/training)



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- Winner of rAve's Best of Infocomm 2012 Awards - Best New Control System Hardware Product: **AMX's Modero X Series Touch Panels**
- Winner of Commercial Integrator's BEST Awards - Touchscreens: **Modero X Series Touch Panel (20.3")**



#### D-TOOLS CERTIFIED PRODUCT

This product can be found in the D-Tools manufacturer product database and specified as a third party device when building and proposing a system using D-Tools System Integrator software.



#### REVIT BIM

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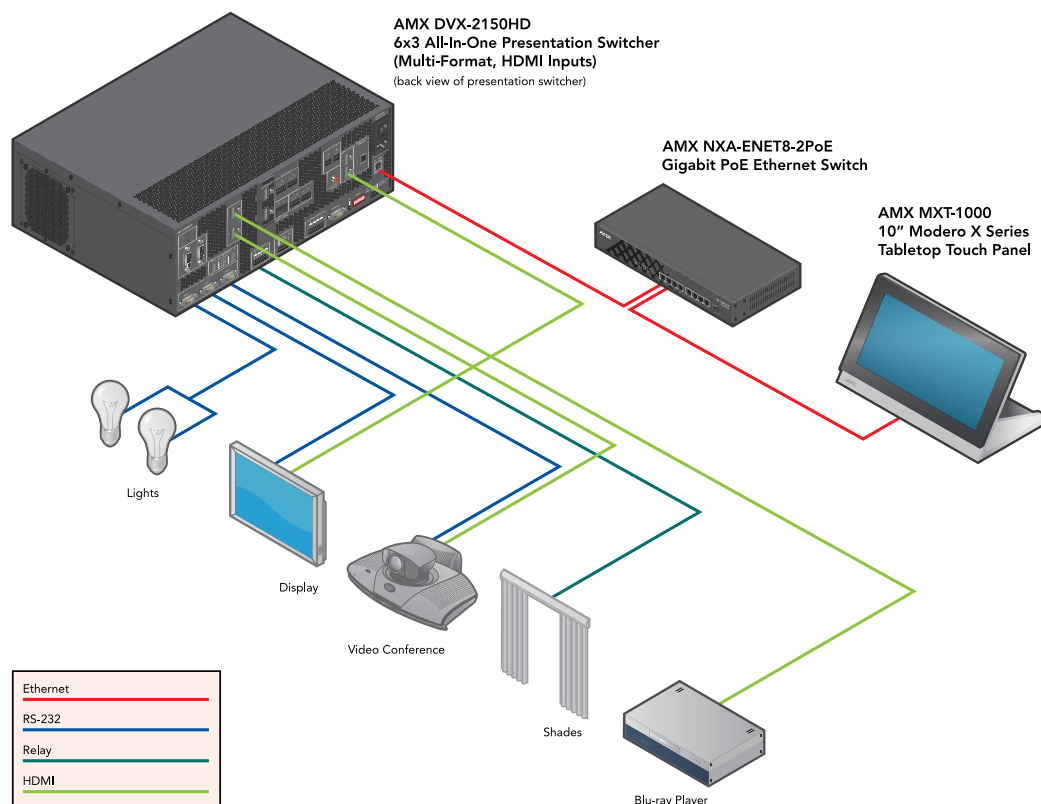
#### COUNTRY OF ORIGIN: MEXICO

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#### G4 TECHNOLOGY

This product features AMX's exclusive, powerful G4 graphics engine – the driving force behind the advanced graphics and image processing capability on a variety of AMX Touch Panels and other devices.





## SPECIFICATIONS

## DIMENSIONS (HWD)

6 7/8" x 9 7/8" x 4 7/8" (174 mm x 252 mm x 124 mm)

## WEIGHT

3.0 lbs (1.36 Kg)

## POWER CONSUMPTION

- Full-On: 8 W
- Standby: 3.2 W
- Shutdown: 1 W
- Start-Up Inrush Current: Not applicable due to PoE standard

## EXTERNAL POWER SUPPLY REQUIRED

Optimal performance requires use of one of the following AMX PoE power supplies (not included):

- PS-POE-AF-TC, PoE Injector, 802.3AF Compliant (FG423-83)
- NXA-ENET8-2POE, Gigabit PoE Ethernet Switch (FG2178-63)

AMX does not support the use of non-AMX power supplies.

## CERTIFICATIONS

- FCC Part 15 Class B
- C-Tick CISPR 22 Class B
- CE EN 55022 Class B and EN 55024
- CB Scheme IEC 60950-1
- IC
- IEC/EN-60950
- RoHS/WEEE compliant

## TOUCH SCREEN DISPLAY

- Display Type: TFT Active Matrix Color LCD with In-plane Switching Technology (IPS)
- Display Size (WH): 9.9" x 6.7" (252 mm x 170 mm), 12.0" (304 mm) diagonal
- Viewable Area (WH): 8.5" x 5.3" (217mm x 136mm), 10.1" (257mm) diagonal
- Resolution (WH): 1280x800
- Aspect Ratio (WH): 16:9
- Brightness: 400 cd/m<sup>2</sup>
- Contrast Ratio: 700:1
- Color Depth: 264K colors
- Illumination: LED
- Touch Overlay: Projected capacitive, multi-touch support, 3 simultaneous max

## VIEWING ANGLE

- Vertical:  $\pm 89^\circ$
- Horizontal:  $\pm 89^\circ$

## MEMORY

- SDRAM: 512 MB
- Flash: 4 GB
- Maximum Project Size: 2.4 GB flash available to user

## COMMUNICATIONS

- Ethernet: 10/100 port, RJ-45 connector. Supported IP and IP-based protocols: UCP, TCP, ICMP, ICSP, IGMP, DHCP, Telnet, FTP, DNS, RFB (for VNC), HTTP
- USB:
  - (2) USB host 2.0, Type A ports (1 with limited physical access requiring right angle connection): Firmware upgrade, touch panel file transfer, JPEG image viewer, HID peripherals, USB audio output for headsets
  - (1) Micro-USB device port: video output from on-board camera (landscape touch panel only), USB audio from on-board microphone to host device
- Near Field Communication (NFC): Supports standards ISO/IEC 15693, ISO/IEC 14443A, ISO/IEC 14443B; Unique Identifier (UID), typ range=.25", max = .5"
- Bluetooth:
  - Mouse/Keyboard: HID Profile v1.1, requires MXA-BT Bluetooth Adapter (FG5968-19)
  - Handset: Hands Free Profile v1.5, Headset Profile v1.2, requires MXA-BT Bluetooth Adapter (FG5968-19) and MXA-HST Bluetooth Handset (FG5968-17)

## VIDEO

- Supported Video Codecs:
  - MPEG-2-TS: MPEG-2 Main Profile @High Level up to 720p at 25 fps (decode only)
  - MPEG-2-TS: H.264 High Profile @Layer 4, AAC-LC up to 720p at 25 fps (encode/decode)
  - MJPEG up to 720p at 25 fps (decode only)
- Supported Video Transport Streams: MPEG-TS for MPEG-2 and H.264, HTTP for MJPEG
- Max Number of Active Video Streams: One decode plus one encode
- Video Output: Camera video output: H.264, up to 720p@25 fps via Micro-USB port only (controlled by host device)
- Video Conferencing: Panel-to-panel and video chat

## AUDIO

- Microphone: -42 dB  $\pm$  3 dB sensitivity FET microphone
- Speakers: 4 ohm, 2 Watt, 300 Hz cutoff frequency
- Supported Audio Codecs:
  - MP2 Layer I and II, MP3 (8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz)
  - AAC-LC (8 kHz, 96 kHz)
  - G.711 with  $\mu$ Law (VoIP encode/decode at 8 kHz)
- Audio Output: USB Audio out USB port (head/hand set support)
- File Formats: WAV, MP3 (as part of touch panel file only - no USB storage)
- Intercom: Full Duplex VoIP, SIP v2.0 (supported with AMX-CSG)

## GRAPHICS ENGINE

- AMX G4: G4 enhanced feature set supporting multi-touch and gestures, scrolling, transitions - See TPD4 Operations Guide for more information

## EMBEDDED APPLICATIONS

- Remote Management: VNC Server, G4 Web Control, AMX Resource Management Suite
- Video Conferencing: Panel-to-panel and video chat
- Audio Conferencing: Audio (Full Duplex Intercom)

## FRONT PANEL COMPONENTS

- Light Sensor: Photosensitive light detector for automatic adjustment of the panel brightness
- Proximity Detector: Max range = ~3', typ range = ~1', FOV = ~10 degrees
- Camera: HD 720p camera for video conferencing/video chat support
- LED Indicators: Camera active indicator (models with camera only)
- Sleep Button: Sleep button to activate sleep mode and powering off. Also provides access to setup pages (can be disabled)

## CONNECTIONS

- Ethernet: 10/100 port, RJ-45 connector through cable extension
- USB:
  - (2) USB host 2.0, Type A ports
  - (1) Micro-USB device port
- Power: PoE (Power over Ethernet), 802.3af, class 3

## ENVIRONMENTAL

- Temperature (Operating): 32° F to 104° F (0° C to 40° C)
- Temperature (Storage): 4° F to 140° F (-20° C to 60° C)
- Humidity (Operating): 20% to 85% RH
- Humidity (Storage): 5% to 85% RH
- Power ("Heat") Dissipation:
  - On: 21.3 BTU/hr
  - Standby: 10.6 BTU/hr

## INCLUDED ACCESSORIES

- MXA-USB-C, USB Port Cover Kit, Modero X Series Touch Panel (FG5968-18)
- 3/4" Mini-Grommet (FG570-01)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)

## OPTIONAL ACCESSORIES

- MXA-MP, Modero X Series Multi Preview (FG5968-20)
- MXA-MPL, Modero X Series Multi Preview Live (FG5968-10)
- PS-POE-AF-TC, PoE Injector, 802.3AF Compliant (FG423-83)
- HPG-10-10K, 3/4" Mini-Grommet, 10-Pack (FG570-01-10K)
- MXA-BT Bluetooth USB Adapter for Modero X Series (FG5968-19)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)
- NXA-ENET8-2POE, Gigabit PoE Ethernet Switch (FG2178-63)
- MXA-HST, Bluetooth Handset for Modero X Series Touch Panels (FG5968-17)
- CSG, Communications Gateway (FG2182-01,-02,-03)

## RECOMMENDED ACCESSORIES

## DESCRIPTION

## PART #

## PAGE #

MXA-MP	Modero X Series Multi Preview	(FG5968-20)	316
MXA-MPL	Modero X Series Multi Preview Live	(FG5968-10)	314
PS-POE-AF-TC	PoE Injector, 802.3AF Compliant	(FG423-83)	322
HPG-10-10K	3/4" Mini-Grommet, 10-Pack	(FG570-01-10K)	137
MXA-BT	Bluetooth USB Adapter for Modero X Series Touch Panels	(FG5968-19)	318
MXA-CLK	Modero X Series Screen Cleaning Kit	(FG5968-16)	319
NXA-ENET8-2POE	Gigabit Ethernet Switch	(FG2178-63)	444
MXA-USB-C	USB Port Covers for the Modero X Series Touch Panels	(FG5968-18)	320
MXA-HST	Bluetooth Handset for Modero X Series Touch Panels	(FG5968-17)	319
CSG	Communications Gateway	(FG2182-01,-02,-03)	430



# MXD-1000

## 10.1" Modero X Series® Wall Mount Touch Panel

Portrait Wall Mount Touch Panel (FG5968-07)

Landscape Wall Mount Touch Panel (FG5968-13)



### OVERVIEW

The Modero X Series is the most elegant family of interfaces designed specifically for dedicated room control. This new generation of touch panels is built for usability offering edge-to-edge capacitive touch glass with multi-touch capabilities. It features advanced technology empowering users to operate AV equipment seamlessly, while providing the ultimate in audio and video quality. The distinctive appearance will complement even the most sophisticated meeting facilities and homes. With a lightning fast processor, brilliant graphics and enhanced capabilities, the Modero X Series is the control surface that simply delivers more.

### COMMON APPLICATION

The MXD-1000 is ideal for boardrooms, conference rooms or auditoriums where a control surface is needed to provide access to key functions. In residences, it is perfect for kitchens, home theaters or home offices where it can be used to manage systems throughout the house.

### FEATURES

- **Latest Communication Technologies** – Supports Near Field Communication (NFC) - short-range wireless technologies that deliver peer-to-peer communication by 'sharing, pairing and transaction' between RF devices like exchanging data/identities
- **Enhanced Usability** – External phone connections via Bluetooth or USB and HD video streaming
- **Graphic Leaps & Bounds** – The Modero X Series features intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities
- **Perfect From Any Angle** – Includes In-Plane Switching (IPS), the latest technology in popular tablet/mobile devices that delivers the widest viewing angles and the most accurate color reproduction on the market

1280 x 800, 800 x 1280  
widescreen  
Resolution



### DEALER BENEFITS

- **Attract More Customers** – The elegant design and simple beauty of the Modero X Series will create demand from both new and current customers
- **Address Unique Requirements** – With edge-to-edge glass and capacitive touch, the Modero X Series Touch Panels provide dealers with a control surface that is unobtrusive and simple to use
- **Differentiate Yourself** – The Modero X Series offers design and technology features unmatched in the industry

### CUSTOMER BENEFITS

- **Simple to Use Interfaces** – The capacitive multi-touch and gesture-based screen makes it easy for anyone to operate sophisticated meeting room or home theater equipment
- **Range of Sizes** – The contemporary design with edge-to-edge glass is available in 4.3", 7", 10.1" as well as 19.4" and 20.3" panoramic sizes for applications in any room
- **Choose Horizontal or Vertical Orientation** – The 10.1" Modero X Series Wall/Flush Mount Touch Panel has models engineered to mount horizontally or vertically giving design flexibility for specific applications such as room scheduling



All On **70 kWh** or Average Usage **10 kWh** + Sleep Mode **2 kWh** = Estimated Usage **12 kWh**  
ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION

**AMX Energy Savings**  
**82%**  
 ANNUAL ENERGY SAVINGS USING RMS & SMART PROGRAMMING



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#### TRAINING AVAILABLE

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#### AWARD WINNER

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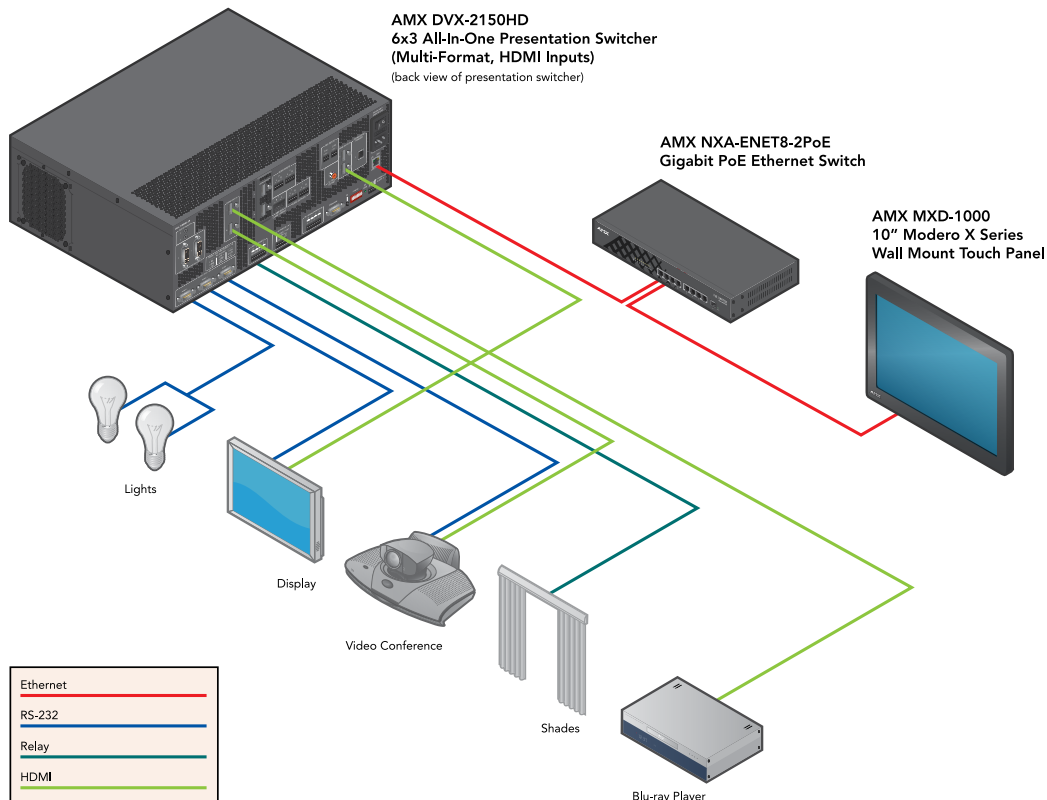
#### COUNTRY OF ORIGIN: MEXICO

To satisfy the requirements/regulations of existing or future government programs, this two-letter code is being provided to designate the country of origin for this product.



#### G4 TECHNOLOGY

This product features AMX's exclusive, powerful G4 graphics engine – the driving force behind the advanced graphics and image processing capability on a variety of AMX Touch Panels and other devices.



## SPECIFICATIONS

## DIMENSIONS (HWD)

Landscape: 6 11/16" x 9 7/8" x 2 5/8" (171 mm x 252 mm x 67 mm)

Portrait: 9 7/8" x 6 11/16" x 2 5/8" (252 mm x 171 mm x 67 mm)

## WEIGHT

2.0 lbs (0.91 Kg)

## POWER CONSUMPTION

- Full-On: 8 W
- Standby: 3.2 W
- Shutdown: 1 W
- Start-Up Inrush Current: Not applicable due to PoE standard

## EXTERNAL POWER SUPPLY REQUIRED

Optimal performance requires use of one of the following AMX PoE power supplies (not included):

- PS-POE-AF-TC, PoE Injector, 802.3AF Compliant (FG423-83)
- NXA-ENET8-2POE, Gigabit PoE Ethernet Switch (FG2178-63)

AMX does not support the use of non-AMX power supplies.

## CERTIFICATIONS

- FCC Part 15 Class B
- C-Tick CISPR 22 Class B
- CE EN 55022 Class B and EN 55024
- CB Scheme IEC 60950-1
- IC
- IEC/EN-60950
- RoHS/WEEE compliant

## TOUCH SCREEN DISPLAY

- Display Type: TFT Active Matrix Color LCD with In-plane Switching Technology (IPS)
- Display Size (WH)
  - Landscape: 9.9" x 6.7" (252 mm x 170 mm), 12.0" (304 mm) diagonal
  - Portrait: 6.7" x 9.9" (170 mm x 252 mm), 12.0" (304 mm) diagonal
- Viewable Area (WH)
  - Landscape: 8.5" x 5.3" (217mm x 136mm), 10.1" (257mm) diagonal
  - Portrait: 5.3" x 8.5" (136 mm x 217 mm), 10.1" (257mm) diagonal
- Resolution
  - Landscape: 1280x800
  - Portrait: 800x1280
- Aspect Ratio
  - Landscape: 16:9
  - Portrait: 9:16
- Brightness: 400 cd/m2
- Contrast Ratio: 700:1
- Color Depth: 264K colors
- Illumination: LED
- Touch Overlay: Projected capacitive, multi-touch support, 3 simultaneous max

## VIEWING ANGLE

- Vertical:  $\pm 89^\circ$
- Horizontal:  $\pm 89^\circ$

## MEMORY

- SDRAM: 512 MB
- Flash: 4 GB
- Maximum Project Size: 2.4 GB flash available to user

## COMMUNICATIONS

- Ethernet: 10/100 port, RJ-45 connector. Supported IP and IP-based protocols: UCP, TCP, ICMP, ICSP, IGMP, DHCP, Telnet, FTP, DNS, RFB (for VNC), HTTP
- USB:
  - (2) USB host 2.0, Type A ports (1 with limited physical access requiring right angle connection): Firmware upgrade, touch panel file transfer, JPEG image viewer, HID peripherals, USB audio output for headsets
  - (1) Micro-USB device port: video output from on-board camera (landscape touch panel only), USB audio from on-board microphone to host device
- Near Field Communication (NFC): Supports standards ISO/IEC 15693, ISO/IEC 14443A, ISO/IEC 14443B; Unique Identifier (UID), typ range=.25", max = .5"
- Bluetooth:
  - Mouse/Keyboard: HID Profile v1.1, requires MXA-BT Bluetooth Adapter (FG5968-19)
  - Handset: Hands Free Profile v1.5, Headset Profile v1.2, requires MXA-BT Bluetooth Adapter (FG5968-19) and MXA-HST Bluetooth Handset (FG5968-17)

## VIDEO

- Supported Video Codecs, Landscape Model (FG5968-13):
  - MPEG-2-TS: MPEG-2 Main Profile@High Level up to 720p at 25 fps (decode only)
  - MPEG-2-TS: H.264 High Profile@Layer 4, AAC-LC up to 720p at 25 fps (encode/decode)
  - MJPEG up to 720p at 25 fps (decode only)
- Supported Video Codecs, Portrait Model (FG5968-07):
  - MPEG-2-TS: MPEG-2 Main Profile@High Level up to 720p at 25 fps (decode only)
  - MPEG-2-TS: H.264 High Profile@Layer 4, AAC-LC up to 720p at 25 fps (decode)
  - MJPEG up to 720p at 25 fps (decode only)
- Supported Video Transport Streams: MPEG-TS for MPEG-2 and H.264; HTTP for MJPEG
- Max Number of Active Video Streams:
  - Portrait: One decode
  - Landscape: One decode plus one encode

- Video Conferencing, Landscape Model (FG5968-13): Panel-to-panel and video chat
- Video Conferencing, Portrait Model (FG5968-07): Panel-to-panel and video chat (the portrait wall mount receives video and returns audio)
- Video Output, Landscape Model Only (FG5968-13): Camera video output: H.264, up to 720p@25 fps via Micro-USB port only (controlled by host device)

## AUDIO

- Microphone: -42 dB  $\pm$  3 dB sensitivity FET microphone
- Speakers: 4 ohm, 2 Watt, 300 Hz cutoff frequency
- Supported Audio Codecs:
  - MP2 Layer I and II, MP3 (8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz)
  - AAC-LC (8 kHz, 96 kHz)
  - G.711 with  $\mu$ Law (VoIP encode/decode at 8 kHz)
- Audio Output: USB Audio out USB port (head/hand set support)
- File Formats: WAV, MP3 (as part of touch panel file only - no USB storage)
- Intercom: Full Duplex VoIP, SIP v2.0 (supported with AMX-CSG)

## GRAPHICS ENGINE

- AMX G4: G4 enhanced feature set supporting multi-touch and gestures, scrolling, transitions - See TPD4 Operations Guide for more information

## EMBEDDED APPLICATIONS

- Remote Management: VNC Server, G4 Web Control, AMX Resource Management Suite
- Video Conferencing: Panel-to-panel and video chat
- Audio Conferencing: Audio (Full Duplex Intercom)

## FRONT PANEL COMPONENTS

- Light Sensor: Photosensitive light detector for automatic adjustment of the panel brightness
- Proximity Detector: Max range = ~3', typ range = ~1', FOV = ~10 degrees
- Camera, Landscape Model Only (FG5968-13): HD 720p camera for video conferencing/video chat support
- LED Indicators: Camera active indicator (models with camera only)
- Sleep Button: Sleep button to activate sleep mode and powering off. Also provides access to setup pages (can be disabled)

## CONNECTIONS

- Ethernet: 10/100 port, RJ-45 connector through cable extension
- USB:
  - (2) USB host 2.0, Type A ports
  - (1) Micro-USB device port
- Power: PoE (Power over Ethernet), 802.3af, class 3

## ENVIRONMENTAL

- Temperature (Operating): 32° F to 104° F (0° C to 40° C)
- Temperature (Storage): 4° F to 140° F (-20° C to 60° C)
- Humidity (Operating): 20% to 85% RH
- Humidity (Storage): 5% to 85% RH
- Power ("Heat") Dissipation:
  - On: 21.3 BTU/hr
  - Standby: 10.6 BTU/hr

## INCLUDED ACCESSORIES

- MXA-USB-C, USB Port Cover Kit, Modero X Series Touch Panel (FG5968-18)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)

## OPTIONAL ACCESSORIES

- MXA-MP, Modero X Series Multi Preview (FG5968-20)
- MXA-MPL, Modero X Series Multi Preview Live (FG5968-10)
- PS-POE-AF-TC, PoE Injector, 802.3AF Compliant (FG423-83)
- CB-MXP10, Rough-In Box and Cover Plate for Modero X Series Touch Panel, 10" (FG039-17)
- MXA-BT Bluetooth USB Adapter for Modero X Series (FG5968-19)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)
- NXA-ENET8-2POE, Gigabit PoE Ethernet Switch (FG2178-63)
- MXA-HST, Bluetooth Handset for Modero X Series Touch Panels (FG5968-17)
- CSG, Communications Gateway (FG2182-01,-02,-03)

## RECOMMENDED ACCESSORIES

## DESCRIPTION

## PART #

## PAGE #

MXA-MP	Modero X Series Multi Preview	(FG5968-20)	316
MXA-MPL	Modero X Series Multi Preview Live	(FG5968-10)	314
PS-POE-AF-TC	PoE Injector, 802.3AF Compliant	(FG423-83)	322
MXA-BT	Bluetooth USB Adapter for Modero X Series Touch Panels	(FG5968-19)	318
MXA-CLK	Modero X Series Screen Cleaning Kit	(FG5968-16)	319
MXA-USB-C	USB Port Covers for the Modero X Series Touch Panels	(FG5968-18)	320
CB-MXP10	Rough-In Box and Cover Plate for the 10" Wall Mount Modero X Series Touch Panels	(FG039-17)	320
NXA-ENET8-2POE	Gigabit Ethernet Switch	(FG2178-63)	444
MXA-HST	Bluetooth Handset for Modero X Series Touch Panels	(FG5968-17)	319
CSG	Communications Gateway	(FG2182-01,-02,-03)	430

1024 x 600  
widescreen  
Resolution

# MXT-700

## 7" Modero X Series® Tabletop Touch Panel

(FG5968-04)



### OVERVIEW

The Modero X Series is the most elegant family of interfaces designed specifically for dedicated room control. This new generation of touch panels is built for usability offering edge-to-edge capacitive touch glass with multi-touch capabilities. It features advanced technology empowering users to operate AV equipment seamlessly, while providing the ultimate in audio and video quality. The distinctive appearance will complement even the most sophisticated meeting facilities and homes. With a lightning fast processor, brilliant graphics and enhanced capabilities, the Modero X Series is the control surface that simply delivers more.

### COMMON APPLICATION

The MXT-700 is ideal for boardrooms, conference rooms or podiums where a control surface is needed to provide access to key functions. In residences, it is perfect for kitchens, bedrooms or home offices where it can be used to manage systems throughout the home.

### FEATURES

- **Latest Communication Technologies** – Supports Near Field Communication (NFC) - short-range wireless technologies that deliver peer-to-peer communication by 'sharing, pairing and transaction' between RF devices like exchanging data/identities
- **Enhanced Usability** – External phone connections via Bluetooth or USB and HD video streaming
- **Graphic Leaps & Bounds** – The Modero X Series features intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities
- **Perfect From Any Angle** – Includes In-Plane Switching (IPS), the latest technology in popular tablet/mobile devices that delivers the widest viewing angles and the most accurate color reproduction on the market



### DEALER BENEFITS

- **Attract More Corporate Customers** – The elegant design and simple beauty of the Modero X Series will create demand from both new and current customers
- **Address Unique Requirements** – With edge-to-edge glass and capacitive touch, the Modero X Series Touch Panels provide dealers with a control surface that is unobtrusive and simple to use
- **Differentiate Yourself** – The Modero X Series offers design and technology features unmatched in the industry

### CUSTOMER BENEFITS

- **Simple to Use Interfaces** – The capacitive multi-touch and gesture-based screen makes it easy for anyone to operate sophisticated meeting room or home theater equipment
- **Range of Sizes** – The contemporary design with edge-to-edge glass is available in 4.3", 7", 10.1" as well as 19.4" and 20.3" panoramic sizes for applications in any room
- **Sleek, Low-Profile Design** – The Modero X Series is engineered to sit perfectly on a table without obstructing views



All On **70kWh** or **10kWh** + **2kWh** = **12kWh**  
ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION

**AMX Energy Savings**  
**82%**  
**ANNUAL ENERGY SAVINGS USING RMS & SMART PROGRAMMING**



#### HELPFUL HINT

The Modero X Series features intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities.



#### WATCH THE VIDEO

For an inside look at the features, technical capabilities and benefits of our touch panels, just visit our Modero X Series 'Videos By Category' playlist at: [youtube.com/amxtalk](http://youtube.com/amxtalk) and for "how-to" videos, visit 'Videos By Category' at: [youtube.com/amxconfigure](http://youtube.com/amxconfigure).



#### TRAINING AVAILABLE

For important installation, configuration and programming techniques, AMX University training is available. Just visit [www.amx.com/training](http://www.amx.com/training)



#### AWARD WINNER

- Winner of rAve's Best of Infocomm 2012 Awards - Best New Control System Hardware Product: **AMX's Modero X Series Touch Panels**
- Winner of Commercial Integrator's BEST Awards - Touchscreens: **Modero X Series Touch Panel (20.3")**



#### D-TOOLS CERTIFIED PRODUCT

This product can be found in the D-Tools manufacturer product database and specified as a third party device when building and proposing a system using D-Tools System Integrator software.



#### REVIT BIM

This product is part of the Autodesk Revit database and can be specified in designs for Building Information Modeling (BIM). Download the associated Revit .rfa file from the Autodesk SEEK Web site. It is also searchable under 'AMX' in any Autodesk application.



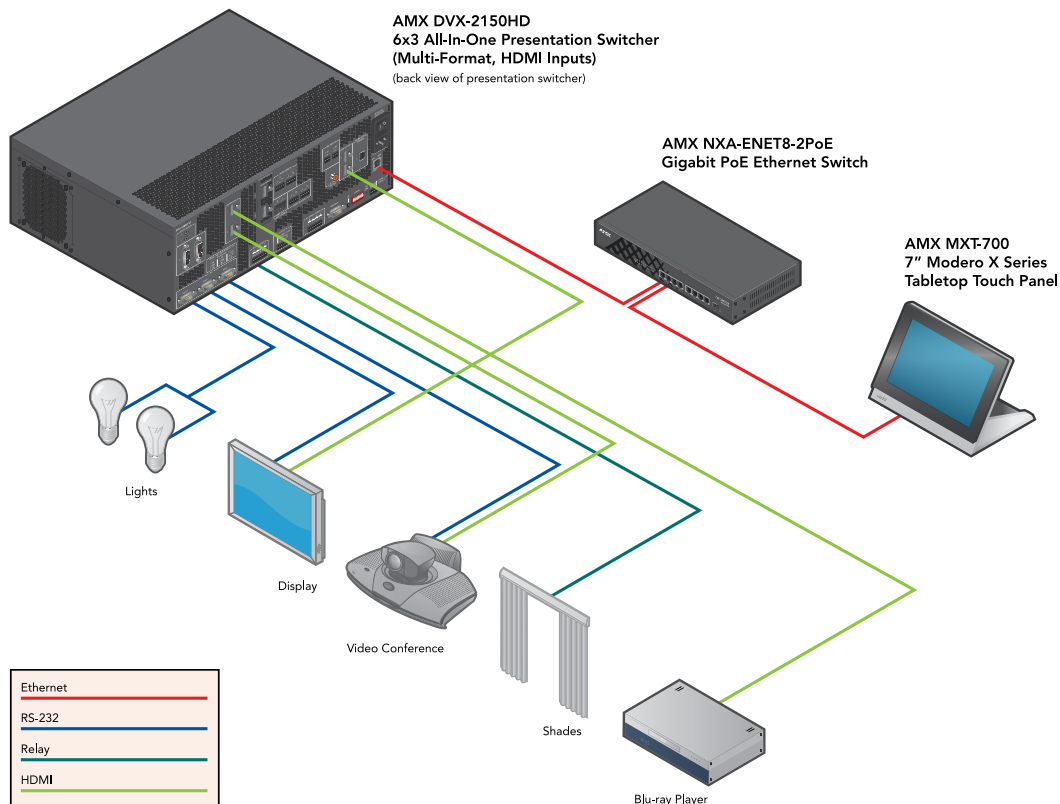
#### COUNTRY OF ORIGIN: MEXICO

To satisfy the requirements/regulations of existing or future government programs, this two-letter code is being provided to designate the country of origin for this product.



#### G4 TECHNOLOGY

This product features AMX's exclusive, powerful G4 graphics engine – the driving force behind the advanced graphics and image processing capability on a variety of AMX Touch Panels and other devices.



## SPECIFICATIONS

## DIMENSIONS (HWD)

5" x 7 5/16" x 4 1/8" (126 mm x 187 mm x 105 mm)

## WEIGHT

1.8 lbs (0.82 Kg)

## POWER CONSUMPTION

- Full-On: 8 W
- Standby: 3.2 W
- Shutdown: 1 W
- Start-Up Inrush Current: Not applicable due to PoE standard

## EXTERNAL POWER SUPPLY REQUIRED

Optimal performance requires use of one of the following AMX PoE power supplies (not included):

- PS-POE-AF-TC, PoE Injector, 802.3AF Compliant (FG423-83)
- NXA-ENET8-2POE, Gigabit PoE Ethernet Switch (FG2178-63)

AMX does not support the use of non-AMX power supplies.

## CERTIFICATIONS

- FCC Part 15 Class B
- C-Tick CISPR 22 Class B
- CE EN 55022 Class B and EN 55024
- CB Scheme IEC 60950-1
- IC
- IEC/EN-60950
- RoHS/WEEE compliant

## TOUCH SCREEN DISPLAY

- Display Type: TFT Active Matrix Color LCD with Fringe Field Switching (FFS) - Wide Viewing Angle Technology
- Display Size (WH): Landscape: 7.3" x 4.8" (186 mm x 122 mm), 8.8" (222 mm) diagonal
- Viewable Area (WH): Landscape: 6.05" x 3.54" (154 mm x 90 mm), 7.0" (178 mm) diagonal
- Resolution (WH): Landscape: 1024x600
- Aspect Ratio (WH): Landscape: 16:9
- Brightness: 400 cd/m<sup>2</sup>
- Contrast Ratio: 800:1
- Color Depth: 16.7M colors
- Illumination: LED
- Touch Overlay: Projected capacitive, multi-touch support, 3 simultaneous max

## VIEWING ANGLE

- Vertical:  $\pm 89^\circ$
- Horizontal:  $\pm 89^\circ$

## MEMORY

- SDRAM: 512 MB
- Flash: 4 GB
- Maximum Project Size: 2.4 GB flash available to user

## COMMUNICATIONS

- Ethernet: 10/100 port, RJ-45 connector. Supported IP and IP-based protocols: UCP, TCP, ICMP, IGMP, DHCP, Telnet, FTP, DNS, RFB (for VNC), HTTP
- USB: (2) USB host 2.0, Type A ports (1 with limited physical access requiring right angle connection): Firmware upgrade, touch panel file transfer, JPEG image viewer, HID peripherals, USB audio output for headsets
- Near Field Communication (NFC): Supports standards ISO/IEC 15693, ISO/IEC 14443A, ISO/IEC 14443B; Unique Identifier (UID), typ range=.25", max = .5"
- Bluetooth:
  - Mouse/Keyboard: HID Profile v1.1, requires MXA-BT Bluetooth Adapter (FG5968-19)
  - Handset: Hands Free Profile v1.5, Headset Profile v1.2, requires MXA-BT Bluetooth Adapter (FG5968-19) and MXA-HST Bluetooth Handset (FG5968-17)

## VIDEO

- Supported Video Codecs:
  - MPEG-2-TS: MPEG-2 Main Profile@High Level up to 720p at 25 fps (decode only)
  - MPEG-2-TS: H.264 High Profile@Layer 4, AAC-LC up to 720p at 25 fps (decode)
  - MJPEG up to 720p at 25 fps (decode only)
- Supported Video Transport Streams: MPEG-TS for MPEG-2 and H.264; HTTP for MJPEG
- Max Number of Active Video Streams: One decode

## AUDIO

- Microphone: -42 dB  $\pm$  3 dB sensitivity FET microphone
- Speakers: 4 ohm, 2 Watt, 300 Hz cutoff frequency
- Supported Audio Codecs:
  - MP2 Layer I and II, MP3 (8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz)
  - AAC-LC (8 kHz, 96 kHz)
  - G.711 with  $\mu$ Law (VoIP encode/decode at 8 kHz)
- Audio Output: USB Audio out USB port (head/hand set support)
- File Formats: WAV, MP3 (as part of touch panel file only - no USB storage)
- Intercom: Full Duplex VoIP, SIP v2.0 (supported with AMX-CSG)

## GRAPHICS ENGINE

- AMX G4: G4 enhanced feature set supporting multi-touch and gestures, scrolling, transitions - See TPD4 Operations Guide for more information

## EMBEDDED APPLICATIONS

- Remote Management: VNC Server, G4 Web Control, AMX Resource Management Suite
- Video Conferencing: Panel-to-panel and video chat (the MXT-700 receives video and returns audio)
- Audio Conferencing: Audio (Full Duplex Intercom)



## FRONT PANEL COMPONENTS

- Light Sensor: Photosensitive light detector for automatic adjustment of the panel brightness
- Proximity Detector: Max range = ~3', typ range = ~1', FOV = ~10 degrees
- Sleep Button: Sleep button to activate sleep mode and powering off. Also provides access to setup pages (can be disabled)

## CONNECTIONS

- Ethernet: 10/100 port, RJ-45 connector through cable extension
- USB: (2) USB host 2.0, Type A ports
- Power: PoE (Power over Ethernet), 802.3af, class 3

## ENVIRONMENTAL

- Temperature (Operating): 32° F to 104° F (0° C to 40° C)
- Temperature (Storage): 4° F to 140° F (-20° C to 60° C)
- Humidity (Operating): 20% to 85% RH
- Humidity (Storage): 5% to 85% RH
- Power ("Heat") Dissipation:
  - On: 18.5 BTU/hr
  - Standby: 10.6 BTU/hr

## INCLUDED ACCESSORIES

- MXA-USB-C, USB Port Cover Kit, Modero X Series Touch Panel (FG5968-18)
- 3/4" Mini-Grommet (FG570-01)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)

## OPTIONAL ACCESSORIES

- MXA-MP, Modero X Series Multi Preview (FG5968-20)
- MXA-MPL, Modero X Series Multi Preview Live (FG5968-10)
- PS-POE-AF-TC, PoE Injector, 802.3AF Compliant (FG423-83)
- HPG-10-10K, 3/4" Mini-Grommet, 10-Pack (FG570-01-10K)
- MXA-BT Bluetooth USB Adapter for Modero X Series (FG5968-19)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)
- NXA-ENET8-2POE, Gigabit PoE Ethernet Switch (FG2178-63)
- MXA-HST, Bluetooth Handset for Modero X Series Touch Panels (FG5968-17)
- CSG, Communications Gateway (FG2182-01,-02,-03)

## RECOMMENDED ACCESSORIES

## DESCRIPTION

## PART #

## PAGE #

MXA-MP	Modero X Series Multi Preview	(FG5968-20)	316
MXA-MPL	Modero X Series Multi Preview Live	(FG5968-10)	314
PS-POE-AF-TC	PoE Injector, 802.3AF Compliant	(FG423-83)	322
HPG-10-10K	3/4" Mini-Grommet, 10-Pack	(FG570-01-10K)	137
MXA-BT	Bluetooth USB Adapter for Modero X Series Touch Panels	(FG5968-19)	318
MXA-CLK	Modero X Series Screen Cleaning Kit	(FG5968-16)	319
NXA-ENET8-2POE	Gigabit Ethernet Switch	(FG2178-63)	444
MXA-USB-C	USB Port Covers for the Modero X Series Touch Panels	(FG5968-18)	320
MXA-HST	Bluetooth Handset for Modero X Series Touch Panels	(FG5968-17)	319
CSG	Communications Gateway	(FG2182-01,-02,-03)	430



1024 x 600, 600 x 1024  
widescreen  
Resolution

# MXD-700

## 7" Modero X Series® Wall Mount Touch Panel

Portrait Wall Mount Touch Panel (FG5968-08)

Landscape Wall Mount Touch Panel (FG5968-14)



### OVERVIEW

The Modero X Series is the most elegant family of interfaces designed specifically for dedicated room control. This new generation of touch panels is built for usability offering edge-to-edge capacitive touch glass with multi-touch capabilities. It features advanced technology empowering users to operate AV equipment seamlessly, while providing the ultimate in audio and video quality. The distinctive appearance will complement even the most sophisticated meeting facilities and homes. With a lightning fast processor, brilliant graphics and enhanced capabilities, the Modero X Series is the control surface that simply delivers more.

### COMMON APPLICATION

The MXD-700 is ideal for boardrooms, conference rooms or podiums where a control surface is needed to provide access to key functions. In residences, it is perfect for kitchens, bedrooms or home offices where it can be used to manage systems throughout the home.

### FEATURES

- **Latest Communication Technologies** – Supports Near Field Communication (NFC) - short-range wireless technologies that deliver peer-to-peer communication by 'sharing, pairing and transaction' between RF devices like exchanging data/identities
- **Enhanced Usability** – External phone connections via Bluetooth or USB and HD video streaming
- **Graphic Leaps & Bounds** – The Modero X Series features intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities
- **Perfect From Any Angle** – Includes In-Plane Switching (IPS), the latest technology in popular tablet/mobile devices that delivers the widest viewing angles and the most accurate color reproduction on the market

### DEALER BENEFITS

- **Attract More Customers** – The elegant design and simple beauty of the Modero X Series will create demand from both new and current customers
- **Address Unique Requirements** – With edge-to-edge glass and capacitive touch, the Modero X Series Touch Panels provide dealers with a control surface that is unobtrusive and simple to use
- **Differentiate Yourself** – The Modero X Series offers design and technology features unmatched in the industry

### CUSTOMER BENEFITS

- **Simple to Use Interfaces** – The capacitive multi-touch and gesture-based screen makes it easy for anyone to operate sophisticated meeting room equipment and whole home systems
- **Range of Sizes** – The contemporary design with edge-to-edge glass is available in 4.3", 7", 10.1" as well as 19.4" and 20.3" panoramic sizes for applications in any room
- **Choose Horizontal or Vertical Orientation** – The 7" Modero X Series Wall/Flush Mount Touch Panel has models engineered to mount horizontally or vertically giving design flexibility for specific applications such as room scheduling



All On **70 kWh** or Average Usage **10 kWh** + Sleep Mode **2 kWh** = Estimated Usage **12 kWh**  
ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION

**AMX Energy Savings**  
**82%**  
 ANNUAL ENERGY SAVINGS USING RMS & SMART PROGRAMMING



#### HELPFUL HINT

The Modero X Series features intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities.



#### WATCH THE VIDEO

For an inside look at the features, technical capabilities and benefits of our touch panels, just visit our Modero X Series 'Videos By Category' playlist at: [youtube.com/amxtalk](http://youtube.com/amxtalk) and for "how-to" videos, visit 'Videos By Category' at: [youtube.com/amxconfigure](http://youtube.com/amxconfigure).



#### TRAINING AVAILABLE

For important installation, configuration and programming techniques, AMX University training is available. Just visit [www.amx.com/training](http://www.amx.com/training)



#### AWARD WINNER

- Winner of rAve's Best of Infocomm 2012 Awards - Best New Control System Hardware Product: **AMX's Modero X Series Touch Panels**
- Winner of Commercial Integrator's BEST Awards - Touchscreens: **Modero X Series Touch Panel (20.3")**



#### D-TOOLS CERTIFIED PRODUCT

This product can be found in the D-Tools manufacturer product database and specified as a third party device when building and proposing a system using D-Tools System Integrator software.



#### REVIT BIM

This product is part of the Autodesk Revit database and can be specified in designs for Building Information Modeling (BIM). Download the associated Revit .rfa file from the Autodesk SEEK Web site. It is also searchable under 'AMX' in any Autodesk application.



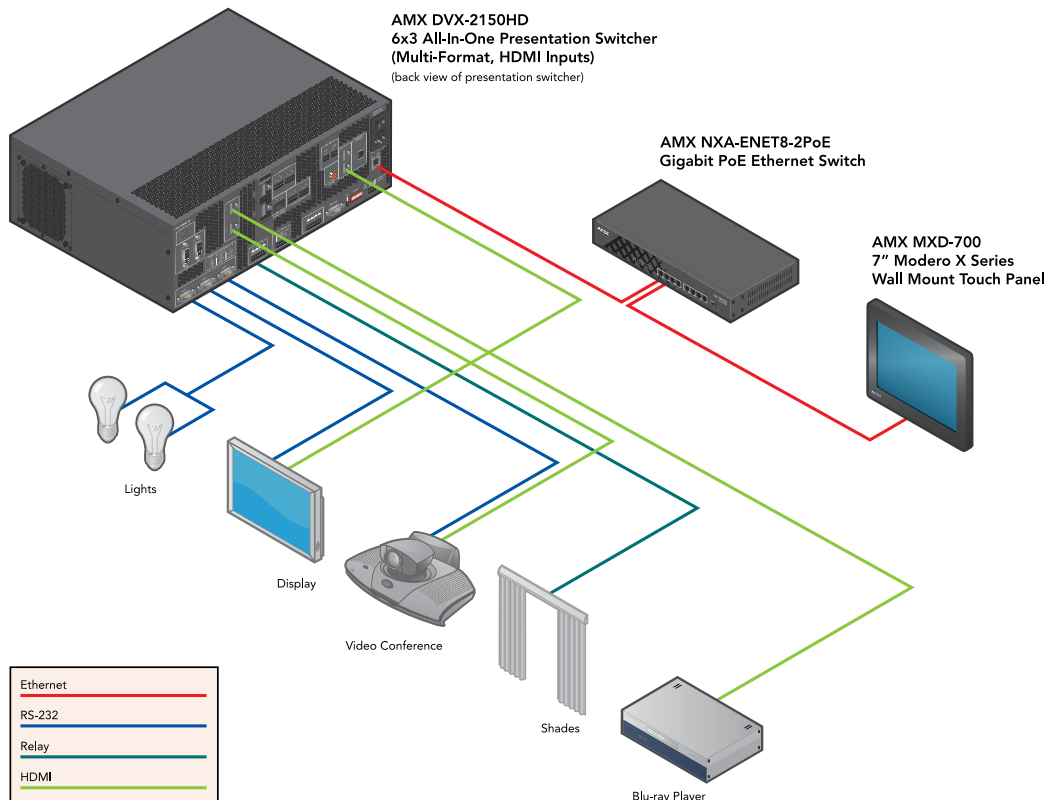
#### COUNTRY OF ORIGIN: MEXICO

To satisfy the requirements/regulations of existing or future government programs, this two-letter code is being provided to designate the country of origin for this product.



#### G4 TECHNOLOGY

This product features AMX's exclusive, powerful G4 graphics engine – the driving force behind the advanced graphics and image processing capability on a variety of AMX Touch Panels and other devices.



## SPECIFICATIONS

## DIMENSIONS (HWD)

Landscape: 4 13/16" x 7 5/16" x 2 1/2" (122 mm x 186 mm x 63 mm)

Portrait: 7 5/16" x 4 13/16" x 2 1/2" (186 mm x 122 mm x 63 mm)

## WEIGHT

1.4 lbs (0.64 Kg)

## POWER CONSUMPTION

- Full-On: 8 W
- Standby: 3.2 W
- Shutdown: 1 W
- Start-Up Inrush Current: Not applicable due to PoE standard

## EXTERNAL POWER SUPPLY REQUIRED

Optimal performance requires use of one of the following AMX PoE power supplies (not included):

- PS-POE-AF-TC, PoE Injector, 802.3AF Compliant (FG423-83)
- NXA-ENET8-2POE, Gigabit PoE Ethernet Switch (FG2178-63)

AMX does not support the use of non-AMX power supplies.

## CERTIFICATIONS

- FCC Part 15 Class B
- C-Tick CISPR 22 Class B
- CE EN 55022 Class B and EN 55024
- CB Scheme IEC 60950-1
- IC
- IEC/EN-60950
- RoHS/WEEE compliant

## TOUCH SCREEN DISPLAY

- Display Type: TFT Active Matrix Color LCD with Fringe Field Switching (FFS) - Wide Viewing Angle Technology
- Display Size (WH)
  - Landscape: 7.3" x 4.8" (186 mm x 122 mm), 8.8" (222 mm) diagonal
  - Portrait: 4.8" x 7.3" (122 mm x 186 mm), 8.8" (222 mm) diagonal
- Viewable Area (WH)
  - Landscape: 6.05" x 3.54" (154 mm x 90 mm), 7.0" (178 mm) diagonal
  - Portrait: 3.54" x 6.05" (90 mm x 154 mm), 7.0" (178 mm) diagonal
- Resolution
  - Landscape: 1024x600
  - Portrait: 600x1024
- Aspect Ratio
  - Landscape: 16:9
  - Portrait: 9:16
- Brightness: 400 cd/m<sup>2</sup>
- Contrast Ratio: 800:1
- Color Depth: 16.7M colors
- Illumination: LED
- Touch Overlay: Projected capacitive, multi-touch support, 3 simultaneous max

## VIEWING ANGLE

- Vertical:  $\pm 89^\circ$
- Horizontal:  $\pm 89^\circ$

## MEMORY

- SDRAM: 512 MB
- Flash: 4 GB
- Maximum Project Size: 2.4 GB flash available to user

## COMMUNICATIONS

- Ethernet: 10/100 port, RJ-45 connector. Supported IP and IP-based protocols: UCP, TCP, ICMP, IGMP, DHCP, Telnet, FTP, DNS, RFB (for VNC), HTTP
- USB: (2) USB host 2.0, Type A ports (1 with limited physical access requiring right angle connection): Firmware upgrade, touch panel file transfer, JPEG image viewer, HID peripherals, USB audio output for headsets
- Near Field Communication (NFC): Supports standards ISO/IEC 15693, ISO/IEC 14443A, ISO/IEC 14443B; Unique Identifier (UID), typ range=.25", max = .5"
- Bluetooth:
  - Mouse/Keyboard: HID Profile v1.1, requires MXA-BT Bluetooth Adapter (FG5968-19)
  - Handset: Hands Free Profile v1.5, Headset Profile v1.2, requires MXA-BT Bluetooth Adapter (FG5968-19) and MXA-HST Bluetooth Handset (FG5968-17)

## VIDEO

- Supported Video Codecs:
  - MPEG-2-TS: MPEG-2 Main Profile@High Level up to 720p at 25 fps (decode only)
  - MPEG-2-TS: H.264 High Profile@Layer 4, AAC-LC up to 720p at 25 fps (decode)
  - MJPEG up to 720p at 25 fps (decode only)
- Supported Video Transport Streams: MPEG-TS for MPEG-2 and H.264; HTTP for MJPEG
- Max Number of Active Video Streams: One decode

## AUDIO

- Microphone: -42 dB  $\pm$  3 dB sensitivity FET microphone
- Speakers: 4 ohm, 2 Watt, 300 Hz cutoff frequency
- Supported Audio Codecs:
  - MP2 Layer I and II, MP3 (8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz)
  - AAC-LC (8 kHz, 96 kHz)
  - G.711 with  $\mu$ Law (VoIP encode/decode at 8 kHz)
- Audio Output: USB Audio out USB port (head/hand set support)
- File Formats: WAV, MP3 (as part of touch panel file only - no USB storage)
- Intercom: Full Duplex VoIP, SIP v2.0 (supported with AMX-CSG)

## GRAPHICS ENGINE

- AMX G4: G4 enhanced feature set supporting multi-touch and gestures, scrolling, transitions - See TPD4 Operations Guide for more information

## EMBEDDED APPLICATIONS

- Remote Management: VNC Server, G4 Web Control, AMX Resource Management Suite
- Video Conferencing: Panel-to-panel and video chat (the MXD-700 receives video and returns audio)
- Audio Conferencing: Audio (Full Duplex Intercom)

## FRONT PANEL COMPONENTS

- Light Sensor: Photosensitive light detector for automatic adjustment of the panel brightness
- Proximity Detector: Max range = ~3', typ range = ~1', FOV = ~10 degrees
- Sleep Button: Sleep button to activate sleep mode and powering off. Also provides access to setup pages (can be disabled)

## CONNECTIONS

- Ethernet: 10/100 port, RJ-45 connector through cable extension
- USB: (2) USB host 2.0, Type A ports
- Power: PoE (Power over Ethernet), 802.3af, class 3

## ENVIRONMENTAL

- Temperature (Operating): 32° F to 104° F (0° C to 40° C)
- Temperature (Storage): 4° F to 140° F (-20° C to 60° C)
- Humidity (Operating): 20% to 85% RH
- Humidity (Storage): 5% to 85% RH
- Power ("Heat") Dissipation:
  - On: 18.5 BTU/hr
  - Standby: 10.6 BTU/hr

## INCLUDED ACCESSORIES

- MXA-USB-C, USB Port Cover Kit, Modero X Series Touch Panel (FG5968-18)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)

## OPTIONAL ACCESSORIES

- MXA-MP, Modero X Series Multi Preview (FG5968-20)
- MXA-MPL, Modero X Series Multi Preview Live (FG5968-10)
- PS-POE-AF-TC, PoE Injector, 802.3AF Compliant (FG423-83)
- CB-MXP7, Rough-In Box, Modero X Series Touch Panel, 7" (FG039-18)
- MXA-BT Bluetooth USB Adapter for Modero X Series (FG5968-19)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)
- NXA-ENET8-2POE, Gigabit PoE Ethernet Switch (FG2178-63)
- MXA-HST, Bluetooth Handset for Modero X Series Touch Panels (FG5968-17)
- CSG, Communications Gateway (FG2182-01,-02,-03)

## RECOMMENDED ACCESSORIES

## DESCRIPTION

## PART #

## PAGE #

MXA-MP	Modero X Series Multi Preview	(FG5968-20)	316
MXA-MPL	Modero X Series Multi Preview Live	(FG5968-10)	314
PS-POE-AF-TC	PoE Injector, 802.3AF Compliant	(FG423-83)	322
MXA-BT	Bluetooth USB Adapter for Modero X Series Touch Panels	(FG5968-19)	318
MXA-CLK	Modero X Series Screen Cleaning Kit	(FG5968-16)	319
MXA-USB-C	USB Port Covers for the Modero X Series Touch Panels	(FG5968-18)	320
CB-MXP7	Rough-In Box and Cover Plate for the 7" Wall Mount Modero X Series Touch Panels	(FG039-18)	321
NXA-ENET8-2POE	Gigabit Ethernet Switch	(FG2178-63)	444
MXA-HST	Bluetooth Handset for Modero X Series Touch Panels	(FG5968-17)	319
CSG	Communications Gateway	(FG2182-01,-02,-03)	430

480 x 800  
portrait  
Resolution

# MXD-430

## 4.3" Modero X Series® Wall Mount Touch Panel

(FG5968-15)



### OVERVIEW

The Modero X Series is the most elegant family of interfaces designed specifically for dedicated room control. This new generation of touch panels is built for usability offering edge-to-edge capacitive touch glass with multi-touch capabilities. It features advanced technology empowering users to operate AV equipment seamlessly, while providing the ultimate in audio and video quality. The distinctive appearance will complement even the most sophisticated meeting facilities and homes. With a lightning fast processor, brilliant graphics and enhanced capabilities, the Modero X Series is the control surface that simply delivers more.

### COMMON APPLICATION

The MXD-430 is ideal for boardrooms, conference rooms or podiums where a control surface is needed to provide access to key functions. In residences, it is perfect for kitchens, bedrooms or bathrooms where it can be used to manage systems throughout the home.

### FEATURES

- **Latest Communication Technologies** – Supports Near Field Communication (NFC) - short-range wireless technologies that deliver peer-to-peer communication by 'sharing, pairing and transaction' between RF devices like exchanging data/identities
- **Enhanced Usability** – External phone connections via Bluetooth or USB and HD video streaming
- **Graphic Leaps & Bounds** – The Modero X Series features intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities
- **Perfect From Any Angle** – Includes In-Plane Switching (IPS), the latest technology in popular tablet/mobile devices that delivers the widest viewing angles and the most accurate color reproduction on the market
- **Programmable LEDs** – red/green LEDs on the left and right sides useful for indicating when a conference room is available or in use

### DEALER BENEFITS

- **Attract More Customers** – The elegant design and simple beauty of the Modero X Series will create demand from both new and current customers
- **Address Unique Requirements** – With edge-to-edge glass and capacitive touch, the Modero X Series Touch Panels provide dealers with a control surface that is unobtrusive and simple to use
- **Differentiate Yourself** – The Modero X Series offers design and technology features unmatched in the industry

### CUSTOMER BENEFITS

- **Simple to Use Interfaces** – The capacitive multi-touch and gesture-based screen makes it easy for anyone to operate sophisticated meeting room equipment and whole home systems
- **Range of Sizes** – The contemporary design with edge-to-edge glass is available in 4.3", 7", 10.1" as well as 19.4" and 20.3" panoramic sizes for applications in any room
- **Choose Horizontal or Vertical Orientation** – The 7" Modero X Series Wall/Flush Mount Touch Panel has models engineered to mount horizontally or vertically giving design flexibility for specific applications such as room scheduling



All On **57 kWh** or Average Usage **8 kWh** + Sleep Mode **3 kWh** = Estimated Usage **11 kWh**

ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION

**AMX Energy Savings**  
**80%**  
ANNUAL ENERGY SAVINGS USING RMS & SMART PROGRAMMING

**HELPFUL HINT**

The Modero X Series features intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities.

**WATCH THE VIDEO**

For an inside look at the features, technical capabilities and benefits of our touch panels, just visit our Modero X Series 'Videos By Category' playlist at: [youtube.com/amxtalk](http://youtube.com/amxtalk) and for "how-to" videos, visit 'Videos By Category' at: [youtube.com/amxconfigure](http://youtube.com/amxconfigure).

**TRAINING AVAILABLE**

For important installation, configuration and programming techniques, AMX University training is available. Just visit [www.amx.com/training](http://www.amx.com/training)

**AWARD WINNER**

- Winner of rAve's Best of Infocomm 2012 Awards - Best New Control System Hardware Product: **AMX's Modero X Series Touch Panels**
- Winner of Commercial Integrator's BEST Awards - Touchscreens: **Modero X Series Touch Panel (20.3")**

**D-TOOLS CERTIFIED PRODUCT**

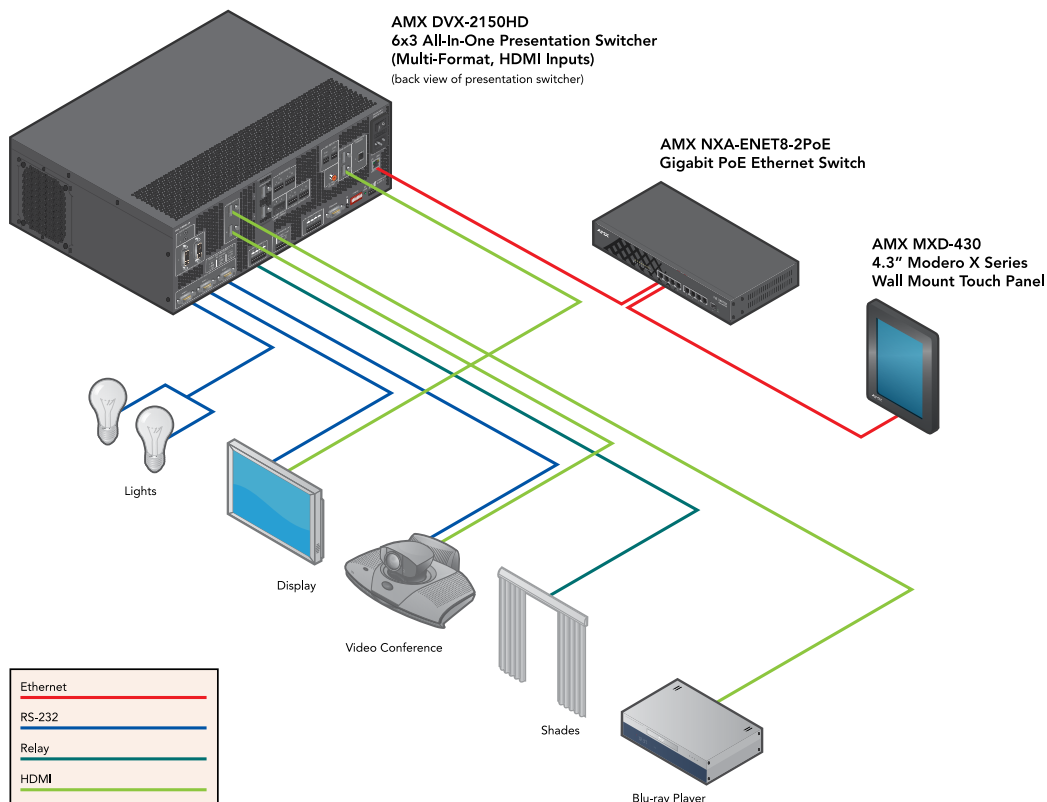
This product can be found in the D-Tools manufacturer product database and specified as a third party device when building and proposing a system using D-Tools System Integrator software.

**COUNTRY OF ORIGIN: MEXICO**

To satisfy the requirements/regulations of existing or future government programs, this two-letter code is being provided to designate the country of origin for this product.

**G4 TECHNOLOGY**

This product features AMX's exclusive, powerful G4 graphics engine – the driving force behind the advanced graphics and image processing capability on a variety of AMX Touch Panels and other devices.



## SPECIFICATIONS

## DIMENSIONS (HWD)

Portrait: 4 7/8" x 3 1/4" x 2 3/8" (120 mm x 82 mm x 61 mm)

## WEIGHT

0.75 lbs (.34 Kg)

## POWER CONSUMPTION

- Full-On: 6.5 W
- Standby: 4.2 W
- Shutdown: 1.9 W
- Start-Up Inrush Current: Not applicable due to PoE standard

## EXTERNAL POWER SUPPLY REQUIRED

Optimal performance requires use of one of the following AMX PoE power supplies (not included):

- PS-POE-AF-TC, PoE Injector, 802.3AF Compliant (FG423-83)
- NXA-ENET8-2POE, Gigabit PoE Ethernet Switch (FG2178-63)

AMX does not support the use of non-AMX power supplies.

## CERTIFICATIONS

- FCC Part 15 Class B
- C-Tick CISPR 22 Class B
- CE EN 55022 Class B and EN 55024
- CB Scheme IEC 60950-1
- IC
- IEC/EN-60950
- RoHS / WEEE compliant

## TOUCH SCREEN DISPLAY

- Display Type: TFT Active Matrix Color LCD with In plane Switching Technology (IPS)
- Display Size (WH)
  - Portrait: 3.3" x 4.8" (82 mm x 120 mm), 4.9" (119 mm) diagonal
- Viewable Area (WH)
  - Portrait: 2.2" x 3.7" (56 mm x 94 mm), 4.3" (109 mm) diagonal
- Resolution
  - Portrait: 480x800
- Aspect Ratio
  - Portrait: 9:16
- Brightness: 500 cd/m2
- Contrast Ratio: 1000:1
- Color Depth: 16.7M colors
- Illumination: LED
- Touch Overlay: Projected capacitive, multi-touch support, 3 simultaneous max

## VIEWING ANGLE

- Vertical:  $\pm 80^\circ$
- Horizontal:  $\pm 80^\circ$

## MEMORY

- SDRAM: 512 MB
- Flash: 4 GB
- Maximum Project Size: 2.4 GB flash available to user

## COMMUNICATIONS

- Ethernet: 10/100 port, RJ-45 connector. Supported IP and IP-based protocols: UCP, TCP, ICMP, ICSP, IGMP, DHCP, Telnet, FTP, DNS, RFB (for VNC), HTTP
- USB: (1) USB host 2.0, Type A port: Firmware upgrade, touch panel file transfer, JPEG image viewer
- Near Field Communication (NFC): Supports standards ISO/IEC 15693, ISO/IEC 14443A, ISO/IEC 14443B; Unique Identifier (UID), typ range=.25", max = .5"
- Bluetooth:
  - Mouse/Keyboard: HID Profile v1.1, requires MXA-BT Bluetooth Adapter (FG5968-19)
  - Handset: Hands Free Profile v1.5, Headset Profile v1.2, requires MXA-BT Bluetooth Adapter (FG5968-19) and MXA-HST Bluetooth Handset (FG5968-17)

## VIDEO

- Supported Video Codecs:
  - MPEG-2-TS: MPEG-2 Main Profile@High Level up to 720p at 25 fps (decode only)
  - MPEG-2-TS: H.264 High Profile@Layer 4, AAC-LC up to 720p at 25 fps (decode)
  - MJPEG up to 720p at 25 fps (decode only)
- Supported Video Transport Streams: MPEG-TS for MPEG-2 and H.264; HTTP for MJPEG
- Max Number of Active Video Streams: One decode

## AUDIO

- Microphone: -42 dB  $\pm$  3 dB sensitivity FET microphone
- Speakers: 4 ohm, 2 Watt, 300 Hz cutoff frequency
- Supported Audio Codecs:
  - MP2 Layer I and II, MP3 (8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz)
  - AAC-LC (8 kHz, 96 kHz)
  - G.711 with  $\mu$ Law (VoIP encode/decode at 8 kHz)
- Audio Output: USB Audio out USB port (head/hand set support)
- File Formats: WAV, MP3 (as part of touch panel file only - no USB storage)
- Intercom: Full Duplex VoIP, SIP v2.0 (supported with AMX-CSG)

## GRAPHICS ENGINE

- AMX G4: G4 enhanced feature set supporting multi-touch and gestures, scrolling, transitions - See TPD4 Operations Guide for more information



## EMBEDDED APPLICATIONS

- Remote Management: VNC Server, G4 Web Control, AMX Resource Management Suite
- Video Conferencing: Panel-to-panel and video chat (the MXD-430 receives video and returns audio)
- Audio Conferencing: Audio (Full Duplex Intercom)

## FRONT PANEL COMPONENTS

- Light Sensor: Photosensitive light detector for automatic adjustment of the panel brightness
- Proximity Detector: Max range = ~3', typ range = ~1', FOV = ~10 degrees
- Sleep Button: Sleep button to activate sleep mode and powering off. Also provides access to setup pages (can be disabled)
- Programmable Red/Green LEDs: Programmable red/green LED recessed in the left and right sides of the panel

## CONNECTIONS

- Ethernet: 10/100 port, RJ-45 connector through cable extension
- USB: (1) USB host 2.0, Type A port
- Power: PoE (Power over Ethernet), 802.3af, class 3

## ENVIRONMENTAL

- Temperature (Operating): 32° F to 104° F (0° C to 40° C)
- Temperature (Storage): 4° F to 140° F (-20° C to 60° C)
- Humidity (Operating): 20% to 85% RH
- Humidity (Storage): 5% to 85% RH
- Power ("Heat") Dissipation:
  - On: 22.2 BTU/hr
  - Standby: 14.3 BTU/hr

## INCLUDED ACCESSORIES

- MXA-USB-C, USB Port Cover Kit, Modero X Series Touch Panel (FG5968-18)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)

## OPTIONAL ACCESSORIES

- MXA-MP, Modero X Series Multi Preview (FG5968-20)
- MXA-MPL, Modero X Series Multi Preview Live (FG5968-10)
- PS-POE-AF-TC, PoE Injector, 802.3AF Compliant (FG423-83)
- CB-MXP43, Rough-In Box and Cover Plate for Modero X Series Touch Panel, 4.3" (FG039-19)
- MXA-BT Bluetooth USB Adapter for Modero X Series (FG5968-19)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)
- NXA-ENET8-2POE, Gigabit PoE Ethernet Switch (FG2178-63)
- MXA-HST, Bluetooth Handset for Modero X Series Touch Panels (FG5968-17)
- CSG, Communications Gateway (FG2182-01,-02,-03)

## RECOMMENDED ACCESSORIES

	DESCRIPTION	PART #	PAGE #
MXA-MP	Modero X Series Multi Preview	(FG5968-20)	316
MXA-MPL	Modero X Series Multi Preview Live	(FG5968-10)	314
PS-POE-AF-TC	PoE Injector, 802.3AF Compliant	(FG423-83)	322
MXA-BT	Bluetooth USB Adapter for Modero X Series Touch Panels	(FG5968-19)	318
MXA-CLK	Modero X Series Screen Cleaning Kit	(FG5968-16)	319
MXA-USB-C	USB Port Covers for the Modero X Series Touch Panels	(FG5968-18)	320
CB-MXP43	Rough-In Box and Cover Plate for the 4.3" Wall Mount Modero X Series Touch Panels	(FG039-19)	322
NXA-ENET8-2POE	Gigabit Ethernet Switch	(FG2178-63)	444
MXA-HST	Bluetooth Handset for Modero X Series Touch Panels	(FG5968-17)	319
CSG	Communications Gateway	(FG2182-01,-02,-03)	430



1920 x 800  
panoramic screen  
Resolution

# MXT-2000XL-PAN-NC

20.3" Modero X Series®  
Panoramic Tabletop Touch Panel  
(no Camera, no Microphone)

(FG5968-32)



## OVERVIEW

See more and do more with the most elegant interface designed specifically for dedicated room control in restricted environments. The MXT-2000XL-PAN-NC is specifically designed to exclude the camera, Near Field Communication™ (NFC), microphone and Bluetooth functions of the original Modero X Series panel to meet the security requirements of facilities that do not allow these capabilities.

The Modero X Series Touch Panels provide several industry firsts including a beautiful, panoramic capacitive multi-touch screen that provides users access to multiple applications with minimal navigation. The distinctive, low-profile design is engineered to sit perfectly on a table without obstructing views. Modero X Series is the control surface that simply delivers more.

## COMMON APPLICATION

The MXT-2000XL-PAN is ideal for federal, state, and local government or military facilities with strict security restrictions due to the storage, use, discussion or electronic processing of sensitive or classified information. The MXT-2000XL-PAN feature modifications to support the added security measures necessary in secure environments such as sensitive compartmented information facilities, emergency operations centers or command headquarters. These modified panels give users robust functionality and capabilities while adhering to essential operational security guidelines.

## FEATURES

- **Panoramic Control Surface** – Combined with the new PanTastic UI, the panoramic touch panels take the user experience to a whole new level with an impressive control surface to perform activities much in the same way you use a computer – multi-tasking with dedicated spaces
- **Graphic Leaps & Bounds** – The Modero X Series includes intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities



- **Perfect From Any Angle** – Includes In-Plane Switching (IPS), the latest technology in popular tablet/mobile devices that delivers the widest viewing angles and the most accurate color reproduction on the market

## DEALER BENEFITS

- **Attract More Specialized Customers** – The elegant design and robust security modifications are ideal for niched customers increasing the breadth and depth of dealers' current customer portfolio
- **Address Unique Requirements** – With a panoramic profile, the Modero X Series provides dealers with a solution for unique uses where multiple applications must be viewed simultaneously
- **Differentiate Yourself** – The Modero X Series offers design and technology features unmatched in the industry

## CUSTOMER BENEFITS

- **Designed for Restricted Environments** – The modified features of this Modero X touch panel support the added security measures of many government and military facilities. Two-way transmission has been removed/disabled prohibiting any potential security threats
- **Multi-Task Capability** – The contemporary design provides a large control surface, which allows multiple views for different activities such as presenting, controlling and previewing
- **Simple to Use Interfaces** – The capacitive multi-touch and gesture-based screen combined with intuitive user-interfaces makes it easy for anyone to operate sophisticated meeting room equipment
- **Sleek, Low-Profile Design** – The Modero X Series is engineered to sit perfectly on a table without obstructing views

**HELPFUL HINT**

The Modero X Series features intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities.

**WATCH THE VIDEO**

For an inside look at the features, technical capabilities and benefits of our touch panels, just visit our Modero X Series 'Videos By Category' playlist at: [youtube.com/amxtalk](https://youtube.com/amxtalk) and for "how-to" videos, visit 'Videos By Category' at: [youtube.com/amxconfigure](https://youtube.com/amxconfigure).

**TRAINING AVAILABLE**

For important installation, configuration and programming techniques, AMX University training is available. Just visit [www.amx.com/training](http://www.amx.com/training)

**AWARD WINNER**

- Winner of rAve's Best of Infocomm 2012 Awards - Best New Control System Hardware Product: **AMX's Modero X Series Touch Panels**
- Winner of Commercial Integrator's BEST Awards - Touchscreens: **Modero X Series Touch Panel (20.3")**

**D-TOOLS CERTIFIED PRODUCT**

This product can be found in the D-Tools manufacturer product database and specified as a third party device when building and proposing a system using D-Tools System Integrator software.

**G4 TECHNOLOGY**

This product features AMX's exclusive, powerful G4 graphics engine – the driving force behind the advanced graphics and image processing capability on a variety of AMX Touch Panels and other devices.

**SPECIFICATIONS****DIMENSIONS (HWD)**

9 3/16" x 20 3/8" x 5 7/8" (235 mm x 519 mm x 150 mm)

**WEIGHT**

12.2 lbs (5.53 Kg)

**POWER CONSUMPTION**

- Full-On: 32W (12 VDC, 2.7 A)
- Standby: 3.10 W (12 VDC, 0.3 A)
- Start-Up Inrush Current: 40 A for 80  $\mu$ sec

**EXTERNAL POWER SUPPLY REQUIRED**

Requires one of these AMX power sources (not included):

- PSN4.4 Power Supply, 4.4 A, 3.5 mm Phoenix, 13.5 VDC (FG423-45)
- MXA-MPL Modero X Series Multi Preview Live (FG5968-10)
- MXA-MP Modero X Series Multi Preview (FG5968-20)

**CERTIFICATIONS**

- FCC Part 15 Class B
- C-Tick CISPR 22 Class B
- CE EN 55022 Class B and EN 55024
- CB Scheme IEC 60950-1
- IC
- IEC/EN-60950
- RoHS/WEEE compliant

**TOUCH SCREEN DISPLAY**

- Display Type: TFT Active Matrix Color LCD with In-plane Switching Technology (IPS)
- Display Size (WH): 20.4" x 9.5" (519 mm x 242 mm), 21.3" (541 mm) diagonal
- Viewable Area (WH): 18.7" x 7.8" (475 mm x 198 mm), 20.3" (514 mm) diagonal
- Resolution: 1920x800
- Aspect Ratio: 12:5
- Brightness: 250 cd/m<sup>2</sup>
- Contrast Ratio: 1000:1
- Color Depth: 16.7M colors
- Illumination: LED
- Touch Overlay: Projected capacitive, multi-touch support, 3 simultaneous max

**VIEWING ANGLE**

- Vertical:  $\pm 89^\circ$
- Horizontal:  $\pm 89^\circ$

**MEMORY**

- SDRAM: 512 MB
- Flash: 4 GB
- Maximum Project Size: 2.4 GB flash available to user

**COMMUNICATIONS**

- Ethernet: 10/100 port, RJ-45 connector. Supported IP and IP-based protocols: UCP, TCP, ICMP, ICSP, IGMP, DHCP, Telnet, FTP, DNS, RFB (for VNC), HTTP
- USB:
  - (3) USB host 2.0, Type A ports: Firmware upgrade, touch panel file transfer, JPEG image viewer, HID peripherals, USB audio output for headsets
  - (1) Micro-USB device port: Disabled

**VIDEO**

- Supported Video Codecs:
  - MPEG2-TS: MPEG-2 Main Profile @High Level up to 720p at 25 fps (decode only)
  - MPEG-2-TS: H.264 High Profile @Layer 4, AAC-LC up to 720p at 25 fps (decode)
  - MJPEG up to 720p at 25 fps (decode only)
- Supported Video Transport Streams: MPEG-TS for MPEG-2 and H.264, HTTP for MJPEG
- Max Number of Active Video Streams: One decode

**AUDIO**

- Speakers: 4 ohm, 2 Watt, 300 Hz cutoff frequency
- Supported Audio Codecs:
  - MP2 Layer I and II, MP3 (8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz)
  - AAC-LC (8 kHz, 96 kHz)
  - G.711 with  $\mu$ Law (decode at 8 kHz)
- File Formats: WAV, MP3 (as part of touch panel file only - no USB storage)

**GRAPHICS ENGINE**

- AMX G4: G4 enhanced feature set supporting multi-touch and gestures, scrolling, transitions - See TPD4 Operations Guide for more information

#### EMBEDDED APPLICATIONS

- Remote Management: VNC Server, G4 Web Control, AMX Resource Management Suite

#### FRONT PANEL COMPONENTS

- Light Sensor: Photosensitive light detector for automatic adjustment of the panel brightness
- Proximity Detector: Max range = ~3', typ range = ~1', FOV = ~10 degrees
- Sleep Button: Sleep button to activate sleep mode and powering off. Also provides access to setup pages (can be disabled)

#### CONNECTIONS

- Ethernet: 10/100 port, RJ-45 connector
- USB:
  - (3) USB host 2.0, Type A ports
  - (1) Micro-USB device port: Disabled
- Power: 2-pin, locking 3.5mm Phoenix connector

#### ENVIRONMENTAL

- Temperature (Operating): 32° F to 104° F (0° C to 40° C)
- Temperature (Storage): 4° F to 140° F (-20° C to 60° C)
- Humidity (Operating): 20% to 85% RH
- Humidity (Storage): 5% to 85% RH
- Power ("Heat") Dissipation:
  - On: 109.2 BTU/hr
  - Standby: 10.6 BTU/hr

#### INCLUDED ACCESSORIES

- Locking 2-pin Phoenix mate (41-0002-SA)
- MXA-USB-C, USB Port Cover Kit, Modero X Series Touch Panel (FG5968-18)
- HPG-10-10K, 3/4" Mini-Grommet (FG570-01)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)

#### OPTIONAL ACCESSORIES

- MXA-MP, Modero X Series Multi Preview (FG5968-20)
- MXA-MPL, Modero X Series Multi Preview Live (FG5968-10)
- PSN4.4, Power Supply, 4.4 A, 3.5 mm Phoenix, 13.5 VDC (FG423-45)
- HPG-10-10K, 3/4" Mini-Grommet, 10-Pack (FG570-01-10K)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)
- MXA-USB-C, USB Port Covers for the Modero X Series Touch Panels (FG5968-18)
- CSG, Communications Gateway (FG2182-01,-02,-03)

#### RECOMMENDED ACCESSORIES

#### DESCRIPTION

#### PART #

#### PAGE #

MXA-MP	Modero X Series Multi Preview	(FG5968-20)	316
MXA-MPL	Modero X Series Multi Preview Live	(FG5968-10)	314
PSN4.4	Power Supply, 4.4 A, 3.5 mm Phoenix, 13.5 VDC	(FG423-45)	334
HPG-10-10K	3/4" Mini-Grommet, 10-Pack	(FG570-01-10K)	137
MXA-CLK	Modero X Series Screen Cleaning Kit	(FG5968-16)	319
MXA-USB-C	USB Port Covers for the Modero X Series Touch Panels	(FG5968-18)	320
CSG	Communications Gateway	(FG2182-01,-02,-03)	430

# MXD-2000XL-PAN-NC

20.3" Modero X Series®  
Panoramic Wall Touch Panel  
(no Camera, no Microphone)

Portrait Wall Mount Touch Panel (FG5968-33)

Landscape Wall Mount Touch Panel (FG5968-34)



## OVERVIEW

See more and do more with the most elegant interface designed specifically for dedicated room control in restricted environments. The MXD-2000XL-PAN-P-NC and MXD-2000XL-PAN-L-NC are designed to exclude the camera, Near Field Communication™ (NFC), microphone and Bluetooth functions of the original Modero X Series panels to meet the security requirements of facilities that do not allow these capabilities.

The Modero X Series Touch Panels provide several industry firsts including a beautiful, panoramic capacitive multi-touch screen that provides users access to multiple applications with minimal navigation. The panoramic design offers the ability to perform multiple functions simultaneously. Modero X Series is the control surface that simply delivers more.

## COMMON APPLICATION

The MXD-2000XL-PAN-P-NC and MXD-2000XL-PAN-L-NC are ideal for federal, state, and local government or military facilities with strict security restrictions due to the storage, use, discussion or electronic processing of sensitive or classified information. They feature modifications to support the added security measures necessary in secure environments such as sensitive compartmented information facilities, emergency operations centers or command headquarters. These modified panels give users robust functionality and capabilities while adhering to essential operational security guidelines.

## FEATURES

- **Panoramic Control Surface** – Combined with the new PanTastic UI, the panoramic touch panels take the user experience to a whole new level with an impressive control surface to perform activities much in the same way you use a computer – multi-tasking with dedicated spaces
- **Graphic Leaps & Bounds** – The Modero X Series includes intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities



1920 x 800, 800 x 1920  
panoramic screen  
Resolution

- **Perfect From Any Angle** – Includes In-Plane Switching (IPS), the latest technology in popular tablet/mobile devices that delivers the widest viewing angles and the most accurate color reproduction on the market

## DEALER BENEFITS

- **Attract More Specialized Customers** – The elegant design and robust security modifications are ideal for niched customers increasing the breadth and depth of dealers' current customer portfolio
- **Address Unique Requirements** – With a panoramic profile, the Modero X Series provides dealers with a solution for unique uses where multiple applications must be viewed simultaneously
- **Differentiate Yourself** – The Modero X Series offers design and technology features unmatched in the industry

## CUSTOMER BENEFITS

- **Designed for Restricted Environments** – The modified features of this Modero X touch panel support the added security measures of many government and military facilities. Two-way transmission has been removed/disabled prohibiting any potential security threats
- **Multi-Task Capability** – The contemporary design provides a large control surface, which allows multiple views for different activities such as presenting, controlling and previewing
- **Simple to Use Interfaces** – The capacitive multi-touch and gesture-based screen combined with intuitive user-interfaces makes it easy for anyone to operate sophisticated meeting room equipment
- **Choose Horizontal or Vertical Orientation** – The 20.3" Modero X Series Panoramic Wall Touch Panel has models engineered to mount horizontally or vertically giving design flexibility for specific applications such as room scheduling, digital signage or access for people with disabilities

**HELPFUL HINT**

The Modero X Series features intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities.

**WATCH THE VIDEO**

For an inside look at the features, technical capabilities and benefits of our touch panels, just visit our Modero X Series 'Videos By Category' playlist at: [youtube.com/amxtalk](https://youtube.com/amxtalk) and for "how-to" videos, visit 'Videos By Category' at: [youtube.com/amxconfigure](https://youtube.com/amxconfigure).

**TRAINING AVAILABLE**

For important installation, configuration and programming techniques, AMX University training is available. Just visit [www.amx.com/training](http://www.amx.com/training)

**AWARD WINNER**

- Winner of rAve's Best of Infocomm 2012 Awards - Best New Control System Hardware Product: AMX's Modero X Series Touch Panels
- Winner of Commercial Integrator's BEST Awards - Touchscreens: Modero X Series Touch Panel (20.3")

**D-TOOLS CERTIFIED PRODUCT**

This product can be found in the D-Tools manufacturer product database and specified as a third party device when building and proposing a system using D-Tools System Integrator software.

**G4 TECHNOLOGY**

This product features AMX's exclusive, powerful G4 graphics engine – the driving force behind the advanced graphics and image processing capability on a variety of AMX Touch Panels and other devices.

**SPECIFICATIONS****DIMENSIONS (HWD)**

Landscape: 9 1/2" x 20 3/8" x 11/16" (242 mm x 519 mm x 19 mm)

Portrait: 20 3/8" x 9 1/2" x 11/16" (519 mm x 242 mm x 19 mm)

**WEIGHT**

9.1 lbs (4.13 Kg)

**POWER CONSUMPTION**

- Full-On: 32W (12 VDC, 2.7 A)
- Standby: 3.10 W (12 VDC, 0.3 A)
- Start-Up Inrush Current: 40 A for 80 µsec

**EXTERNAL POWER SUPPLY REQUIRED**

Requires one of these AMX power sources (not included):

- PSN4.4 Power Supply, 4.4 A, 3.5 mm Phoenix, 13.5 VDC (FG423-45)
- MXA-MPL Modero X Series Multi Preview Live (FG5968-10)
- MXA-MP Modero X Series Multi Preview (FG5968-20)

**CERTIFICATIONS**

- FCC Part 15 Class B
- C-Tick CISPR 22 Class B
- CE EN 55022 Class B and EN 55024
- CB Scheme IEC 60950-1
- IC
- IEC/EN-60950
- RoHS/WEEE compliant

**TOUCH SCREEN DISPLAY**

- Display Type: TFT Active Matrix Color LCD with In-plane Switching Technology (IPS)
- Display Size (WH)
  - Landscape: 20.4" x 9.5" (519 mm x 242 mm), 21.3" (541 mm) diagonal
  - Portrait: 9.5" x 20.4" (242 mm x 519 mm), 21.3" (541 mm) diagonal
- Viewable Area (WH)
  - Landscape 18.7" x 7.8" (475 mm x 198 mm), 20.3" (514 mm) diagonal
  - Portrait 7.8" x 18.7" (198 mm x 475 mm), 20.3" (514 mm) diagonal
- Resolution
  - Landscape: 1920x800
  - Portrait: 800x1920
- Aspect Ratio
  - Landscape: 12:5
  - Portrait: 5:12

- Brightness: 250 cd/m2
- Contrast Ratio: 1000:1
- Color Depth: 16.7M colors
- Illumination: LED
- Touch Overlay: Projected capacitive, multi-touch support, 3 simultaneous max

**VIEWING ANGLE**

- Vertical: ± 89°
- Horizontal: ± 89°

**MEMORY**

- SDRAM: 512 MB
- Flash: 4 GB
- Maximum Project Size: 2.4 GB flash available to user

**COMMUNICATIONS**

- Ethernet: 10/100 port, RJ-45 connector. Supported IP and IP-based protocols: UCP, TCP, ICMP, IGMP, DHCP, Telnet, FTP, DNS, RFB (for VNC), HTTP
- USB:
  - (2) USB host 2.0, Type A ports (1 with limited physical access requiring right angle connection): Firmware upgrade, touch panel file transfer, JPEG image viewer, HID peripherals, USB audio output for headsets
  - (1) Micro-USB device port: Disabled

**VIDEO**

- Supported Video Codecs:
  - MPEG-2-TS: MPEG-2 Main Profile@High Level up to 720p at 25 fps (decode only)
  - MPEG-2-TS: H.264 High Profile@Layer 4, AAC-LC up to 720p at 25 fps (decode)
  - MJPEG up to 720p at 25 fps (decode only)
- Supported Video Transport Streams: MPEG-TS for MPEG2 and H.264; HTTP for MJPEG
- Max Number of Active Video Streams: One decode

## AUDIO

- Speakers: 4 ohm, 2 Watt, 300 Hz cutoff frequency
- Supported Audio Codecs:
  - MP2 Layer I and II, MP3 (8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz)
  - AAC-LC (8 kHz, 96 kHz)
  - G.711 with  $\mu$ Law (decode at 8 kHz)
- File Formats: WAV, MP3 (as part of touch panel file only - no USB storage)

## GRAPHICS ENGINE

- AMX G4: G4 enhanced feature set supporting multi-touch and gestures, scrolling, transitions - See TPD4 Operations Guide for more information

## EMBEDDED APPLICATIONS

- Remote Management: VNC Server, G4 Web Control, AMX Resource Management Suite

## FRONT PANEL COMPONENTS

- Light Sensor: Photosensitive light detector for automatic adjustment of the panel brightness
- Proximity Detector: Max range = ~3', typ range = ~1', FOV = ~10 degrees
- Sleep Button: Sleep button to activate sleep mode and powering off. Also provides access to setup pages (can be disabled)

## CONNECTIONS

- Ethernet: 10/100 port, RJ-45 connector
- USB:
  - (2) USB host 2.0, Type A ports
  - (1) Micro-USB device port: Disabled
- Power: 2-pin, locking 3.5mm Phoenix connector

## ENVIRONMENTAL

- Temperature (Operating): 32° F to 104° F (0° C to 40° C)
- Temperature (Storage): 4° F to 140° F (-20° C to 60° C)
- Humidity (Operating): 20% to 85% RH
- Humidity (Storage): 5% to 85% RH
- Power ("Heat") Dissipation:
  - On: 109.2 BTU/hr
  - Standby: 10.6 BTU/hr

## INCLUDED ACCESSORIES

- Locking 2-pin Phoenix mate (41-0002-SA)
- MXA-USB-C, USB Port Cover Kit, Modero X Series Touch Panel (FG5968-18)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)
- Wall Template 20" (68-5968-01)

## OPTIONAL ACCESSORIES

- MXA-MP, Modero X Series Multi Preview (FG5968-20)
- MXA-MPL, Modero X Series Multi Preview Live (FG5968-10)
- PSN4.4, Power Supply, 4.4 A, 3.5 mm Phoenix, 13.5 VDC (FG423-45)
- CB-MXP19/20, Rough-In Box, Modero X Series Touch Panel, Panoramic 19/20 (FG039-15)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)
- MXA-USB-C, USB Port Covers for the Modero X Series Touch Panels (FG5968-18)
- CSG, Communications Gateway (FG2182-01,-02,-03)

## RECOMMENDED ACCESSORIES

## DESCRIPTION

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MXA-MP	Modero X Series Multi Preview	(FG5968-20)	316
MXA-MPL	Modero X Series Multi Preview Live	(FG5968-10)	314
PSN4.4	Power Supply, 4.4 A, 3.5 mm Phoenix, 13.5 VDC	(FG423-45)	334
CB-MXP19/20	Rough-In Box, Modero X Series Touch Panel, Panoramic 19/20	(FG039-15)	320
MXA-CLK	Modero X Series Screen Cleaning Kit	(FG5968-16)	319
MXA-USB-C	USB Port Covers for the Modero X Series Touch Panels	(FG5968-18)	320
CSG	Communications Gateway	(FG2182-01,-02,-03)	430



**1920 x 530**  
panoramic screen  
Resolution

# MXT-1900L-PAN-NC

19.4" Modero X Series®  
Panoramic Tabletop Touch Panel  
(no Camera, no Microphone)

(FG5968-21)



## OVERVIEW

See more and do more with the most elegant interface designed specifically for dedicated room control. The MXT-1900L-PAN-NC is designed to exclude the camera, Near Field Communication™ (NFC), microphone and Bluetooth capabilities of the original Modero X Series panel to meet the security requirements of facilities that do not allow these capabilities.

Modero X Series Touch Panels provide several industry firsts including a beautiful, panoramic capacitive multi-touch screen that provides users access to multiple applications with minimal navigation. The distinctive, low-profile design is engineered to sit perfectly on a table without obstructing views. Modero X Series is the control surface that simply delivers more.

## COMMON APPLICATION

The MXT-1900L-PAN-NC is ideal for federal, state, and local government or military facilities with strict security restrictions due to the storage, use, discussion or electronic processing of sensitive or classified information. It features modifications to support the added security measures necessary in secure environments such as sensitive compartmented information facilities, emergency operations centers or command headquarters. These modified panels give users robust functionality and capabilities while adhering to essential operational security guidelines.

## FEATURES

- **Panoramic Control Surface** – Combined with the new PanTastic UI, the panoramic touch panels take the user experience to a whole new level with an impressive control surface to perform activities much in the same way you use a computer – multi-tasking with dedicated spaces
- **Graphic Leaps & Bounds** – The Modero X Series features intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities



- **Perfect From Any Angle** – Includes In-Plane Switching (IPS), the latest technology in popular tablet/mobile devices that delivers the widest viewing angles and the most accurate color reproduction on the market

## DEALER BENEFITS

- **Attract More Specialized Customers** – The elegant design and robust security modifications are ideal for niched customers increasing the breadth and depth of dealers' current customer portfolio
- **Address Unique Requirements** – With a panoramic profile, the Modero X Series provides dealers with a solution for unique uses where multiple applications must be viewed simultaneously
- **Differentiate Yourself** – The Modero X Series offers design and technology features unmatched in the industry

## CUSTOMER BENEFITS

- **Designed for Restricted Environments** – The modified features of this Modero X touch panel support the added security measures of many government and military facilities. Two-way transmission has been removed/disabled prohibiting any potential security threats
- **Multi-Task Capability** – The contemporary design provides a large control surface, which allows multiple views for different activities such as presenting, controlling and previewing
- **Simple to Use Interfaces** – The capacitive multi-touch and gesture-based screen combined with intuitive user-interfaces makes it easy for anyone to operate sophisticated meeting room equipment
- **Sleek, Low-Profile Design** – The Modero X Series is engineered to sit perfectly on a table without obstructing views

**HELPFUL HINT**

The Modero X Series features intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities.

**WATCH THE VIDEO**

For an inside look at the features, technical capabilities and benefits of our touch panels, just visit our Modero X Series 'Videos By Category' playlist at: [youtube.com/amxtalk](https://youtube.com/amxtalk) and for "how-to" videos, visit 'Videos By Category' at: [youtube.com/amxconfigure](https://youtube.com/amxconfigure).

**TRAINING AVAILABLE**

For important installation, configuration and programming techniques, AMX University training is available. Just visit [www.amx.com/training](http://www.amx.com/training)

**AWARD WINNER**

- Winner of rAve's Best of Infocomm 2012 Awards - Best New Control System Hardware Product: **AMX's Modero X Series Touch Panels**
- Winner of Commercial Integrator's BEST Awards - Touchscreens: **Modero X Series Touch Panel (20.3")**

**D-TOOLS CERTIFIED PRODUCT**

This product can be found in the D-Tools manufacturer product database and specified as a third party device when building and proposing a system using D-Tools System Integrator software.

**G4 TECHNOLOGY**

This product features AMX's exclusive, powerful G4 graphics engine – the driving force behind the advanced graphics and image processing capability on a variety of AMX Touch Panels and other devices.

**SPECIFICATIONS****DIMENSIONS (HWD)**

7" x 20 3/8" x 5 5/16" (177 mm x 519 mm x 135 mm)

**WEIGHT**

9.4 lbs (4.26 Kg)

**POWER CONSUMPTION**

- Full-On: 32W (12 VDC, 2.7 A)
- Standby: 3.10 W (12 VDC, 0.3 A)
- Start-Up Inrush Current: 40 A for 80  $\mu$ sec

**EXTERNAL POWER SUPPLY REQUIRED**

Requires one of these AMX power sources (not included):

- PSN4.4 Power Supply, 4.4 A, 3.5 mm Phoenix, 13.5 VDC (FG423-45)
- MXA-MPL Modero X Series Multi Preview Live (FG5968-10)
- MXA-MP Modero X Series Multi Preview (FG5968-20)

**CERTIFICATIONS**

- FCC Part 15 Class B
- C-Tick CISPR 22 Class B
- CE EN 55022 Class B and EN 55024
- CB Scheme IEC 60950-1
- IC
- IEC/EN-60950
- RoHS/WEEE compliant

**TOUCH SCREEN DISPLAY**

- Display Type: TFT Active Matrix Color LCD with In-plane Switching Technology (IPS)
- Display Size (WH): Landscape 20.4" x 6.9" (519 mm x 175 mm), 20.4" (518 mm) diagonal
- Viewable Area (WH): Landscape 18.7" x 5.9" (475 mm x 151 mm), 19.4" (493 mm) diagonal
- Resolution: Landscape 1920x530
- Aspect Ratio: Landscape 18:5
- Brightness: 350 cd/m<sup>2</sup>
- Contrast Ratio: 1000:1
- Color Depth: 16.7M colors
- Illumination: LED
- Touch Overlay: Projected capacitive, multi-touch support, 3 simultaneous max

**VIEWING ANGLE**

- Vertical:  $\pm 89^\circ$
- Horizontal:  $\pm 89^\circ$

**MEMORY**

- SDRAM: 512 MB
- Flash: 4 GB
- Maximum Project Size: 2.4 GB flash available to user

**COMMUNICATIONS**

- Ethernet: 10/100 port, RJ-45 connector. Supported IP and IP-based protocols: UCP, TCP, ICMP, ICSP, IGMP, DHCP, Telnet, FTP, DNS, RFB (for VNC), HTTP
- USB:
  - (3) USB host 2.0, Type A ports: Firmware upgrade, touch panel file transfer, JPEG image viewer, HID peripherals, USB audio output for headsets
  - (1) Micro-USB device port: Disabled

**VIDEO**

- Supported Video Codecs:
  - MPEG-2-TS: MPEG-2 Main Profile @High Level up to 720p at 25 fps (decode only)
  - MPEG-2-TS: H.264 High Profile @Layer 4, AAC-LC up to 720p at 25 fps (decode)
  - MJPEG up to 720p at 25 fps (decode only)
- Supported Video Transport Streams: MPEG-TS for MPEG-2 and H.264, HTTP for MJPEG
- Max Number of Active Video Streams: One decode

**AUDIO**

- Speakers: 4 ohm, 2 Watt, 300 Hz cutoff frequency
- Supported Audio Codecs:
  - MP2 Layer I and II, MP3 (8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz)
  - AAC-LC (8 kHz, 96 kHz)
  - G.711 with  $\mu$ Law (decode at 8 kHz)
- File Formats: WAV, MP3 (as part of touch panel file only - no USB storage)

**GRAPHICS ENGINE**

- AMX G4: G4 enhanced feature set supporting multi-touch and gestures, scrolling, transitions - See TPD4 Operations Guide for more information



#### EMBEDDED APPLICATIONS

- Remote Management: VNC Server, G4 Web Control, AMX Resource Management Suite

#### FRONT PANEL COMPONENTS

- Light Sensor: Photosensitive light detector for automatic adjustment of the panel brightness
- Proximity Detector: Max range = ~3', typ range = ~1', FOV = ~10 degrees
- Sleep Button: Sleep button to activate sleep mode and powering off. Also provides access to setup pages (can be disabled)

#### CONNECTIONS

- Ethernet: 10/100 port, RJ-45 connector
- USB:
  - (3) USB host 2.0, Type A ports
  - (1) Micro-USB device port: Disabled
- Power: 2-pin, locking 3.5mm Phoenix connector

#### ENVIRONMENTAL

- Temperature (Operating): 32° F to 104° F (0° C to 40° C)
- Temperature (Storage): 4° F to 140° F (-20° C to 60° C)
- Humidity (Operating): 20% to 85% RH
- Humidity (Storage): 5% to 85% RH
- Power ("Heat") Dissipation:
  - On: 109.2 BTU/hr
  - Standby: 10.6 BTU/hr

#### INCLUDED ACCESSORIES

- Locking 2-pin Phoenix mate (41-0002-SA)
- MXA-USB-C, USB Port Cover Kit, Modero X Series Touch Panel (FG5968-18)
- HPG-10-10K, 3/4" Mini-Grommet (FG570-01)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)

#### OPTIONAL ACCESSORIES

- MXA-MP, Modero X Series Multi Preview (FG5968-20)
- MXA-MPL, Modero X Series Multi Preview Live (FG5968-10)
- PSN4.4, Power Supply, 4.4 A, 3.5 mm Phoenix, 13.5 VDC (FG423-45)
- HPG-10-10K, 3/4" Mini-Grommet, 10-Pack (FG570-01-10K)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)
- MXA-USB-C, USB Port Covers for the Modero X Series Touch Panels (FG5968-18)
- CSG, Communications Gateway (FG2182-01,-02,-03)

#### RECOMMENDED ACCESSORIES

#### DESCRIPTION

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MXA-MP	Modero X Series Multi Preview	(FG5968-20)	316
MXA-MPL	Modero X Series Multi Preview Live	(FG5968-10)	314
PSN4.4	Power Supply, 4.4 A, 3.5 mm Phoenix, 13.5 VDC	(FG423-45)	334
HPG-10-10K	3/4" Mini-Grommet, 10-Pack	(FG570-01-10K)	137
MXA-CLK	Modero X Series Screen Cleaning Kit	(FG5968-16)	319
MXA-USB-C	USB Port Covers for the Modero X Series Touch Panels	(FG5968-18)	320
CSG	Communications Gateway	(FG2182-01,-02,-03)	430

# MXD-1900L-PAN-NC

19.4" Modero X Series®  
Panoramic Wall Touch Panel  
(no Camera, no Microphone)

Portrait Wall Mount Touch Panel (FG5968-22)

Landscape Wall Mount Touch Panel (FG5968-23)



1920 x 530, 530 x 1920  
panoramic screen  
Resolution

## OVERVIEW

See more and do more with the most elegant interface designed specifically for dedicated room control. The MXD-1900L-PAN-P-NC and MXD-1900L-PAN-L-NC are designed to exclude the camera, Near Field Communication™ (NFC), microphone and Bluetooth capabilities of the original Modero X Series panel to meet the security requirements of facilities that do not allow these capabilities.

The Modero X Series Touch Panels provide several industry firsts for control surfaces including a beautiful, panoramic capacitive multi-touch screen that provides users access to multiple applications with minimal navigation. The panoramic design allows multiple functions simultaneously including digital signage. Modero X Series is the control surface that simply delivers more.

## COMMON APPLICATION

The MXD-1900L-PAN-P-NC and MXD-1900L-PAN-L-NC are ideal for federal, state, and local government or military facilities with strict security restrictions due to the storage, use, discussion or electronic processing of sensitive or classified information. It features modifications to support the added security measures necessary in secure environments such as sensitive compartmented information facilities, emergency operations centers or command headquarters. These modified panels give users robust functionality and capabilities while adhering to essential operational security guidelines.

## FEATURES

- **Panoramic Control Surface** – Combined with the new PanTastic UI, the panoramic touch panels take the user experience to a whole new level with an impressive control surface to perform activities much in the same way you use a computer – multi-tasking with dedicated spaces
- **Graphic Leaps & Bounds** – The Modero X Series features intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities

- **Perfect From Any Angle** – Includes In-Plane Switching (IPS), the latest technology in popular tablet/mobile devices that delivers the widest viewing angles and the most accurate color reproduction on the market

## DEALER BENEFITS

- **Attract More Corporate Customers** – The elegant design and robust security modifications are ideal for niched customers increasing the breadth and depth of dealers' current customer portfolio
- **Address Unique Requirements** – With a panoramic profile, the Modero X Series provides dealers with a solution for unique uses where multiple applications must be viewed simultaneously
- **Differentiate Yourself** – The Modero X Series offers design and technology features unmatched in the industry

## CUSTOMER BENEFITS

- **Designed for Restricted Environments** – The modified features of this Modero X touch panel support the added security measures of many government and military facilities. Two-way transmission has been removed/disabled prohibiting any potential security threats
- **Multi-Task Capability** – The contemporary design provides a large control surface, which allows multiple views for different activities such as presenting, controlling and previewing
- **Simple to Use Interfaces** – The capacitive multi-touch and gesture-based screen combined with intuitive user-interfaces makes it easy for anyone to operate sophisticated meeting room equipment
- **Choose Horizontal or Vertical Orientation** – The 19.4" Modero X Series Panoramic Wall Touch Panel has models engineered to mount horizontally or vertically giving design flexibility for specific applications such as room scheduling, digital signage or access for people with disabilities

**HELPFUL HINT**

The Modero X Series features intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities.

**WATCH THE VIDEO**

For an inside look at the features, technical capabilities and benefits of our touch panels, just visit our Modero X Series 'Videos By Category' playlist at: [youtube.com/amxtalk](http://youtube.com/amxtalk) and for "how-to" videos, visit 'Videos By Category' at: [youtube.com/amxconfigure](http://youtube.com/amxconfigure).

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**AWARD WINNER**

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- Winner of Commercial Integrator's BEST Awards - Touchscreens: **Modero X Series Touch Panel (20.3")**

**D-TOOLS CERTIFIED PRODUCT**

This product can be found in the D-Tools manufacturer product database and specified as a third party device when building and proposing a system using D-Tools System Integrator software.

**G4 TECHNOLOGY**

This product features AMX's exclusive, powerful G4 graphics engine – the driving force behind the advanced graphics and image processing capability on a variety of AMX Touch Panels and other devices.

**SPECIFICATIONS****DIMENSIONS (HWD)**

Landscape: 6 7/8" x 20 3/8" x 11/16" (175 mm x 519 mm x 19 mm)

Portrait: 20 3/8" x 6 7/8" x 11/16" (519 mm x 175 mm x 19 mm)

**WEIGHT**

7.0 lbs (3.18 Kg)

**POWER CONSUMPTION**

FULL-ON: 32W (12 VDC, 2.7 A)

- Standby: 3.10 W (12 VDC, 0.3 A)
- Start-Up Inrush Current: 40 A for 80  $\mu$ sec

**EXTERNAL POWER SUPPLY REQUIRED**

Requires one of these AMX power sources (not included):

- PSN4.4 Power Supply, 4.4 A, 3.5 mm Phoenix, 13.5 VDC (FG423-45)
- MXA-MPL Modero X Series Multi Preview Live (FG5968-10)
- MXA-MP Modero X Series Multi Preview (FG5968-20)

**CERTIFICATIONS**

- FCC Part 15 Class B
- C-Tick CISPR 22 Class B
- CE EN 55022 Class B and EN 55024
- CB Scheme IEC 60950-1
- IC
- IEC/EN-60950
- RoHS/WEEE compliant

**TOUCH SCREEN DISPLAY**

- Display Type: TFT Active Matrix Color LCD with In-plane Switching Technology (IPS)
- Display Size (WH)
  - Landscape: 20.4" x 6.9" (519 mm x 175 mm), 20.4" (518 mm) diagonal
  - Portrait: 6.9" x 20.4" (175 mm x 519 mm), 20.4" (518 mm) diagonal
- Viewable Area (WH)
  - Landscape: 18.7" x 5.9" (475 mm x 151 mm), 19.4" (493 mm) diagonal
  - Portrait: 5.9" x 18.7" (151 mm x 475 mm), 19.4" (493 mm) diagonal
- Resolution
  - Landscape: 1920x530
  - Portrait: 530x1920
- Aspect Ratio
  - Landscape: 18:5
  - Portrait: 5:18

- Brightness: 350 cd/m2
- Contrast Ratio: 1000:1
- Color Depth: 16.7M colors
- Illumination: LED
- Touch Overlay: Projected capacitive, multi-touch support, 3 simultaneous max

**VIEWING ANGLE**

- Vertical:  $\pm 89^\circ$
- Horizontal:  $\pm 89^\circ$

**MEMORY**

- SDRAM: 512 MB
- Flash: 4 GB
- Maximum Project Size: 2.4 GB flash available to user

**COMMUNICATIONS**

- Ethernet: 10/100 port, RJ-45 connector. Supported IP and IP-based protocols: UCP, TCP, ICMP, IGMP, DHCP, Telnet, FTP, DNS, RFB (for VNC), HTTP
- USB:
  - (2) USB host 2.0, Type A ports (1 with limited physical access requiring right angle connection): Firmware upgrade, touch panel file transfer, JPEG image viewer, HID peripherals, USB audio output for headsets
  - (1) Micro-USB device port: Disabled

**VIDEO**

- Supported Video Codecs:
  - MPEG-2-TS: MPEG-2 Main Profile@High Level up to 720p at 25 fps (decode only)
  - MPEG-2-TS: H.264 High Profile@Layer 4, AAC-LC up to 720p at 25 fps (decode)
  - MJPEG up to 720p at 25 fps (decode only)
- Supported Video Transport Streams: MPEG-TS for MPEG2 and H.264; HTTP for MJPEG
- Max Number of Active Video Streams: One decode

## AUDIO

- Speakers: 4 ohm, 2 Watt, 300 Hz cutoff frequency
- Supported Audio Codecs:
  - MP2 Layer I and II, MP3 (8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz)
  - AAC-LC (8 kHz, 96 kHz)
  - G.711 with  $\mu$ Law (decode at 8 kHz)
- File Formats: WAV, MP3 (as part of touch panel file only - no USB storage)

## GRAPHICS ENGINE

- AMX G4: G4 enhanced feature set supporting multi-touch and gestures, scrolling, transitions - See TPD4 Operations Guide for more information

## EMBEDDED APPLICATIONS

- Remote Management: VNC Server, G4 Web Control, AMX Resource Management Suite

## FRONT PANEL COMPONENTS

- Light Sensor: Photosensitive light detector for automatic adjustment of the panel brightness
- Proximity Detector: Max range = ~3', typ range = ~1', FOV = ~10 degrees
- Sleep Button: Sleep button to activate sleep mode and powering off. Also provides access to setup pages (can be disabled)

## CONNECTIONS

- Ethernet: 10/100 port, RJ-45 connector
- USB:
  - (2) USB host 2.0, Type A ports
  - (1) Micro-USB device port: Disabled
- Power: 2-pin, locking 3.5mm Phoenix connector

## ENVIRONMENTAL

- Temperature (Operating): 32° F to 104° F (0° C to 40° C)
- Temperature (Storage): 4° F to 140° F (-20° C to 60° C)
- Humidity (Operating): 20% to 85% RH
- Humidity (Storage): 5% to 85% RH
- Power ("Heat") Dissipation:
  - On: 109.2 BTU/hr
  - Standby: 10.6 BTU/hr

## INCLUDED ACCESSORIES

- Locking 2-pin Phoenix mate (41-0002-SA)
- MXA-USB-C, USB Port Cover Kit, Modero X Series Touch Panel (FG5968-18)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)
- Wall Template 19" (68-5968-02)

## OPTIONAL ACCESSORIES

- MXA-MP, Modero X Series Multi Preview (FG5968-20)
- MXA-MPL, Modero X Series Multi Preview Live (FG5968-10)
- PSN4.4, Power Supply, 4.4 A, 3.5 mm Phoenix, 13.5 VDC (FG423-45)
- CB-MXP19/20, Rough-In Box, Modero X Series Touch Panel, Panoramic 19/20 (FG039-15)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)
- MXA-USB-C, USB Port Covers for the Modero X Series Touch Panels (FG5968-18)
- CSG, Communications Gateway (FG2182-01,-02,-03)

## RECOMMENDED ACCESSORIES

## DESCRIPTION

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MXA-MP	Modero X Series Multi Preview	(FG5968-20)	316
MXA-MPL	Modero X Series Multi Preview Live	(FG5968-10)	314
PSN4.4	Power Supply, 4.4 A, 3.5 mm Phoenix, 13.5 VDC	(FG423-45)	334
CB-MXP19/20	Rough-In Box, Modero X Series Touch Panel, Panoramic 19/20	(FG039-15)	320
MXA-CLK	Modero X Series Screen Cleaning Kit	(FG5968-16)	319
MXA-USB-C	USB Port Covers for the Modero X Series Touch Panels	(FG5968-18)	320
CSG	Communications Gateway	(FG2182-01,-02,-03)	430

1280 x 800  
widescreen  
Resolution

# MXT-1000-NC

10.1" Modero X Series®  
Tabletop Touch Panel  
(no Camera, no Microphone)

(FG5968-24)



## OVERVIEW

The Modero X Series is the most elegant family of interfaces designed specifically for dedicated room control. This new generation of touch panels is built for usability offering edge-to-edge capacitive touch glass with multi-touch capabilities. The MXT-1000-NC is designed to exclude the camera, Near Field Communication™ (NFC), microphone and Bluetooth capabilities of the original Modero X Series panel to meet the security requirements of facilities that do not allow these capabilities.

It features advanced technology empowering users to operate AV equipment seamlessly, while providing the ultimate in audio and video quality. The distinctive appearance will complement even the most sophisticated meeting facilities. With a lightning fast processor, brilliant graphics and enhanced capabilities, the Modero X Series is the control surface that simply delivers more.

## COMMON APPLICATION

The MXT-1000-NC is ideal for federal, state, and local government or military facilities with strict security restrictions due to the storage, use, discussion or electronic processing of sensitive or classified information. It features modifications to support the added security measures necessary in secure environments such as sensitive compartmented information facilities, emergency operations centers or command headquarters. These modified panels give users robust functionality and capabilities while adhering to essential operational security guidelines.

## FEATURES

- **Graphic Leaps & Bounds** – The Modero X Series features intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities
- **Perfect From Any Angle** – Includes In-Plane Switching (IPS), the latest technology in popular tablet/mobile devices that delivers the widest viewing angles and the most accurate color reproduction on the market



## DEALER BENEFITS

- **Attract More Specialized Customers** – The elegant design and robust security modifications are ideal for niched customers increasing the breadth and depth of dealers' current customer portfolio
- **Address Unique Requirements** – With edge-to-edge glass and capacitive touch, the Modero X Series Touch Panels provide dealers with a control surface that is unobtrusive and simple to use
- **Differentiate Yourself** – The Modero X Series offers design and technology features unmatched in the industry

## CUSTOMER BENEFITS

- **Designed for Restricted Environments** – The modified features of this Modero X Touch Panel support the added security measures of many government and military facilities. Two-way transmission has been removed/disabled prohibiting any potential security threats
- **Simple to Use Interfaces** – The capacitive multi-touch and gesture-based screen makes it easy for anyone to operate sophisticated meeting room or home theater equipment
- **Range of Sizes** – The contemporary design with edge-to-edge glass is available in 7", 10.1" as well as 19.4" and 20.3" panoramic sizes for applications in any room
- **Sleek, Low-Profile Design** – The Modero X Series is engineered to sit perfectly on a table without obstructing views

**HELPFUL HINT**

The Modero X Series features intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities.

**WATCH THE VIDEO**

For an inside look at the features, technical capabilities and benefits of our touch panels, just visit our Modero X Series 'Videos By Category' playlist at: [youtube.com/amxtalk](https://youtube.com/amxtalk) and for "how-to" videos, visit 'Videos By Category' at: [youtube.com/amxconfigure](https://youtube.com/amxconfigure).

**TRAINING AVAILABLE**

For important installation, configuration and programming techniques, AMX University training is available. Just visit [www.amx.com/training](http://www.amx.com/training)

**AWARD WINNER**

- Winner of rAve's Best of Infocomm 2012 Awards - Best New Control System Hardware Product: **AMX's Modero X Series Touch Panels**
- Winner of Commercial Integrator's BEST Awards - Touchscreens: **Modero X Series Touch Panel (20.3")**

**D-TOOLS CERTIFIED PRODUCT**

This product can be found in the D-Tools manufacturer product database and specified as a third party device when building and proposing a system using D-Tools System Integrator software.

**G4 TECHNOLOGY**

This product features AMX's exclusive, powerful G4 graphics engine – the driving force behind the advanced graphics and image processing capability on a variety of AMX Touch Panels and other devices.

**SPECIFICATIONS****DIMENSIONS (HWD)**

6 7/8" x 9 7/8" x 4 7/8" (174 mm x 252 mm x 124 mm)

**WEIGHT**

3.0 lbs (1.36 Kg)

**POWER CONSUMPTION**

- Full-On: 8 W
- Standby: 3.2 W
- Shutdown: 1 W
- Start-Up Inrush Current: Not applicable due to PoE standard

**EXTERNAL POWER SUPPLY REQUIRED**

Optimal performance requires use of one of the following AMX PoE power supplies (not included):

- PS-POE-AF-TC, PoE Injector, 802.3AF Compliant (FG423-83)
- NXA-ENET8-2POE, Gigabit PoE Ethernet Switch (FG2178-63)

AMX does not support the use of non-AMX power supplies.

**CERTIFICATIONS**

- FCC Part 15 Class B
- C-Tick CISPR 22 Class B
- CE EN 55022 Class B and EN 55024
- CB Scheme IEC 60950-1
- IC
- IEC/EN-60950
- RoHS/WEEE compliant

**TOUCH SCREEN DISPLAY**

- Display Type: TFT Active Matrix Color LCD with In-plane Switching Technology (IPS)
- Display Size (WH): 9.9" x 6.7" (252 mm x 170 mm), 12.0" (304 mm) diagonal
- Viewable Area (WH): 8.5" x 5.3" (217mm x 136mm), 10.1" (257mm) diagonal
- Resolution (WH): 1280x800
- Aspect Ratio (WH): 16:9
- Brightness: 400 cd/m2
- Contrast Ratio: 700:1
- Color Depth: 264K colors
- Illumination: LED
- Touch Overlay: Projected capacitive, multi-touch support, 3 simultaneous max

**VIEWING ANGLE**

- Vertical:  $\pm 89^\circ$
- Horizontal:  $\pm 89^\circ$

**MEMORY**

- SDRAM: 512 MB
- Flash: 4 GB
- Maximum Project Size: 2.4 GB flash available to user

**COMMUNICATIONS**

- Ethernet: 10/100 port, RJ-45 connector. Supported IP and IP-based protocols: UCP, TCP, ICMP, ICSP, IGMP, DHCP, Telnet, FTP, DNS, RFB (for VNC), HTTP
- USB:
  - (2) USB host 2.0, Type A ports (1 with limited physical access requiring right angle connection): Firmware upgrade, touch panel file transfer, JPEG image viewer, HID peripherals, USB audio output for headsets
  - (1) Micro-USB device port: Disabled

**VIDEO**

- Supported Video Codecs:
  - MPEG2-TS: MPEG-2 Main Profile @High Level up to 720p at 25 fps (decode only)
  - MPEG-2-TS: H.264 High Profile @Layer 4, AAC-LC up to 720p at 25 fps (decode)
  - MJPEG up to 720p at 25 fps (decode only)
- Supported Video Transport Streams: MPEG-TS for MPEG-2 and H.264, HTTP for MJPEG
- Max Number of Active Video Streams: One decode

**AUDIO**

- Speakers: 4 ohm, 2 Watt, 300 Hz cutoff frequency
- Supported Audio Codecs:
  - MP2 Layer I and II, MP3 (8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz)
  - AAC-LC (8 kHz, 96 kHz)
  - G.711 with  $\mu$ Law (decode at 8 kHz)
- File Formats: WAV, MP3 (as part of touch panel file only - no USB storage)

**GRAPHICS ENGINE**

- AMX G4: G4 enhanced feature set supporting multi-touch and gestures, scrolling, transitions - See TPD4 Operations Guide for more information

## EMBEDDED APPLICATIONS

- Remote Management: VNC Server, G4 Web Control, AMX Resource Management Suite

## FRONT PANEL COMPONENTS

- Light Sensor: Photosensitive light detector for automatic adjustment of the panel brightness
- Proximity Detector: Max range = ~3', typ range = ~1', FOV = ~10 degrees
- Sleep Button: Sleep button to activate sleep mode and powering off. Also provides access to setup pages (can be disabled)

## CONNECTIONS

- Ethernet: 10/100 port, RJ-45 connector through cable extension
- USB:
  - (2) USB host 2.0, Type A ports
  - (1) Micro-USB device port: Disabled
- Power: PoE (Power over Ethernet), 802.3af, class 3

## ENVIRONMENTAL

- Temperature (Operating): 32° F to 104° F (0° C to 40° C)
- Temperature (Storage): 4° F to 140° F (-20° C to 60° C)
- Humidity (Operating): 20% to 85% RH
- Humidity (Storage): 5% to 85% RH
- Power ("Heat") Dissipation:
  - On: 21.3 BTU/hr
  - Standby: 10.6 BTU/hr

## INCLUDED ACCESSORIES

- MXA-USB-C, USB Port Cover Kit, Modero X Series Touch Panel (FG5968-18)
- 3/4" Mini-Grommet (FG570-01)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)

## OPTIONAL ACCESSORIES

- MXA-MP, Modero X Series Multi Preview (FG5968-20)
- MXA-MPL, Modero X Series Multi Preview Live (FG5968-10)
- PS-POE-AF-TC, PoE Injector, 802.3AF Compliant (FG423-83)
- HPG-10-10K, 3/4" Mini-Grommet, 10-Pack (FG570-01-10K)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)
- NXA-ENET8-2POE, Gigabit PoE Ethernet Switch (FG2178-63)
- CSG, Communications Gateway (FG2182-01,-02,-03)

## RECOMMENDED ACCESSORIES

## DESCRIPTION

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MXA-MP	Modero X Series Multi Preview	(FG5968-20)	316
MXA-MPL	Modero X Series Multi Preview Live	(FG5968-10)	314
PS-POE-AF-TC	PoE Injector, 802.3AF Compliant	(FG423-83)	322
HPG-10-10K	3/4" Mini-Grommet, 10-Pack	(FG570-01-10K)	137
MXA-CLK	Modero X Series Screen Cleaning Kit	(FG5968-16)	319
NXA-ENET8-2POE	Gigabit Ethernet Switch	(FG2178-63)	444
MXA-USB-C	USB Port Covers for the Modero X Series Touch Panels	(FG5968-18)	320
CSG	Communications Gateway	(FG2182-01,-02,-03)	430





# MXD-1000-NC

## 10.1" Modero X Series® Wall Mount Touch Panel (no Camera, no Microphone)

Portrait Wall Mount Touch Panel (FG5968-25)

Landscape Wall Mount Touch Panel (FG5968-26)



### OVERVIEW

The Modero X Series is the most elegant family of interfaces designed specifically for dedicated room control. The MXD-1000-P-NC and MXD-1000-L-NC are designed to exclude the camera, Near Field Communication™ (NFC), microphone and Bluetooth capabilities of the original Modero X Series panel to meet the security requirements of facilities that do not allow these capabilities.

This new generation of touch panels is built for usability offering edge-to-edge capacitive touch glass with multi-touch capabilities. It features advanced technology empowering users to operate AV equipment seamlessly, while providing the ultimate in audio and video quality. The distinctive appearance will complement even the most sophisticated meeting facilities and homes. With a lightning fast processor, brilliant graphics and enhanced capabilities, the Modero X Series is the control surface that simply delivers more.

### COMMON APPLICATION

The MXD-1000-P-NC and MXD-1000-L-NC are ideal for federal, state, and local government or military facilities with strict security restrictions due to the storage, use, discussion or electronic processing of sensitive or classified information. They feature modifications to support the added security measures necessary in secure environments such as sensitive compartmented information facilities, emergency operations centers or command headquarters. These modified panels give users robust functionality and capabilities while adhering to essential operational security guidelines.



1280 x 800, 800 x 1280  
widescreen  
Resolution

### FEATURES

- **Graphic Leaps & Bounds** – The Modero X Series features intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities
- **Perfect From Any Angle** – Includes In-Plane Switching (IPS), the latest technology in popular tablet/mobile devices that delivers the widest viewing angles and the most accurate color reproduction on the market

### DEALER BENEFITS

- **Attract More Specialized Customers** – The elegant design and robust security modifications are ideal for niched customers increasing the breadth and depth of dealers' current customer portfolio
- **Address Unique Requirements** – With edge-to-edge glass and capacitive touch, the Modero X Series Touch Panels provide dealers with a control surface that is unobtrusive and simple to use
- **Differentiate Yourself** – The Modero X Series offers design and technology features unmatched in the industry

### CUSTOMER BENEFITS

- **Simple to Use Interfaces** – The capacitive multi-touch and gesture-based screen makes it easy for anyone to operate sophisticated meeting room or home theater equipment
- **Range of Sizes** – The contemporary design with edge-to-edge glass is available in 7", 10.1" as well as 19.4" and 20.3" panoramic sizes for applications in any room
- **Choose Horizontal or Vertical Orientation** – The 10.1" Modero X Series Wall/Flush Mount Touch Panel has models engineered to mount horizontally or vertically giving design flexibility for specific applications such as room scheduling

**HELPFUL HINT**

The Modero X Series features intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities.

**WATCH THE VIDEO**

For an inside look at the features, technical capabilities and benefits of our touch panels, just visit our Modero X Series 'Videos By Category' playlist at: [youtube.com/amxtalk](https://youtube.com/amxtalk) and for "how-to" videos, visit 'Videos By Category' at: [youtube.com/amxconfigure](https://youtube.com/amxconfigure).

**TRAINING AVAILABLE**

For important installation, configuration and programming techniques, AMX University training is available. Just visit [www.amx.com/training](http://www.amx.com/training)

**AWARD WINNER**

- Winner of rAve's Best of Infocomm 2012 Awards - Best New Control System Hardware Product: **AMX's Modero X Series Touch Panels**
- Winner of Commercial Integrator's BEST Awards - Touchscreens: **Modero X Series Touch Panel (20.3")**

**D-TOOLS CERTIFIED PRODUCT**

This product can be found in the D-Tools manufacturer product database and specified as a third party device when building and proposing a system using D-Tools System Integrator software.

**G4 TECHNOLOGY**

This product features AMX's exclusive, powerful G4 graphics engine – the driving force behind the advanced graphics and image processing capability on a variety of AMX Touch Panels and other devices.

**SPECIFICATIONS****DIMENSIONS (HWD)**

Landscape: 6 11/16" x 9 7/8" x 2 5/8" (171 mm x 252 mm x 67 mm)

Portrait: 9 7/8" x 6 11/16" x 2 5/8" (252 mm x 171 mm x 67 mm)

**WEIGHT**

2.0 lbs (0.91 Kg)

**POWER CONSUMPTION**

- Full-On: 8 W
- Standby: 3.2 W
- Shutdown: 1 W
- Start-Up Inrush Current: Not applicable due to PoE standard

**EXTERNAL POWER SUPPLY REQUIRED**

Optimal performance requires use of one of the following AMX PoE power supplies (not included):

- PS-POE-AF-TC, PoE Injector, 802.3AF Compliant (FG423-83)
- NXA-ENET8-2POE, Gigabit PoE Ethernet Switch (FG2178-63)

AMX does not support the use of non-AMX power supplies.

**CERTIFICATIONS**

- FCC Part 15 Class B
- C-Tick CISPR 22 Class B
- CE EN 55022 Class B and EN 55024
- CB Scheme IEC 60950-1
- IC
- IEC/EN-60950
- RoHS/WEEE compliant

**TOUCH SCREEN DISPLAY**

- Display Type: TFT Active Matrix Color LCD with In-plane Switching Technology (IPS)
- Display Size (WH)
  - Landscape: 9.9" x 6.7" (252 mm x 170 mm), 12.0" (304 mm) diagonal
  - Portrait: 6.7" x 9.9" (170 mm x 252 mm), 12.0" (304 mm) diagonal
- Viewable Area (WH)
  - Landscape: 8.5" x 5.3" (217mm x 136mm), 10.1" (257mm) diagonal
  - Portrait: 5.3" x 8.5" (136 mm x 217 mm), 10.1" (257mm) diagonal
- Resolution
  - Landscape: 1280x800
  - Portrait: 800x1280

- Aspect Ratio
  - Landscape: 16:9
  - Portrait: 9:16
- Brightness: 400 cd/m2
- Contrast Ratio: 700:1
- Color Depth: 264K colors
- Illumination: LED
- Touch Overlay: Projected capacitive, multi-touch support, 3 simultaneous max

**VIEWING ANGLE**

- Vertical:  $\pm 89^\circ$
- Horizontal:  $\pm 89^\circ$

**MEMORY**

- SDRAM: 512 MB
- Flash: 4 GB
- Maximum Project Size: 2.4 GB flash available to user

**COMMUNICATIONS**

- Ethernet: 10/100 port, RJ-45 connector. Supported IP and IP-based protocols: UCP, TCP, ICMP, IGMP, DHCP, Telnet, FTP, DNS, RFB (for VNC), HTTP
- USB:
  - (2) USB host 2.0, Type A ports (1 with limited physical access requiring right angle connection): Firmware upgrade, touch panel file transfer, JPEG image viewer, HID peripherals, USB audio output for headsets
  - (1) Micro-USB device port: Disabled

**VIDEO**

- Supported Video Codecs:
  - MPEG-2-TS: MPEG-2 Main Profile@High Level up to 720p at 25 fps (decode only)
  - MPEG-2-TS: H.264 High Profile@Layer 4, AAC-LC up to 720p at 25 fps (decode)
  - MJPEG up to 720p at 25 fps (decode only)
- Supported Video Transport Streams: MPEG-TS for MPEG2 and H.264; HTTP for MJPEG
- Max Number of Active Video Streams: One decode

## AUDIO

- Speakers: 4 ohm, 2 Watt, 300 Hz cutoff frequency
- Supported Audio Codecs:
  - MP2 Layer I and II, MP3 (8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz)
  - AAC-LC (8 kHz, 96 kHz)
  - G.711 with  $\mu$ Law (decode at 8 kHz)
- File Formats: WAV, MP3 (as part of touch panel file only - no USB storage)

## GRAPHICS ENGINE

- AMX G4: G4 enhanced feature set supporting multi-touch and gestures, scrolling, transitions - See TPD4 Operations Guide for more information

## EMBEDDED APPLICATIONS

- Remote Management: VNC Server, G4 Web Control, AMX Resource Management Suite

## FRONT PANEL COMPONENTS

- Light Sensor: Photosensitive light detector for automatic adjustment of the panel brightness
- Proximity Detector: Max range = ~3', typ range = ~1', FOV = ~10 degrees
- Sleep Button: Sleep button to activate sleep mode and powering off. Also provides access to setup pages (can be disabled)

## CONNECTIONS

- Ethernet: 10/100 port, RJ-45 connector through cable extension
- USB:
  - (2) USB host 2.0, Type A ports
  - (1) Micro-USB device port: Disabled
- Power: PoE (Power over Ethernet), 802.3af, class 3

## ENVIRONMENTAL

- Temperature (Operating): 32° F to 104° F (0° C to 40° C)
- Temperature (Storage): 4° F to 140° F (-20° C to 60° C)
- Humidity (Operating): 20% to 85% RH
- Humidity (Storage): 5% to 85% RH
- Power ("Heat") Dissipation:
  - On: 21.3 BTU/hr
  - Standby: 10.6 BTU/hr

## INCLUDED ACCESSORIES

- MXA-USB-C, USB Port Cover Kit, Modero X Series Touch Panel (FG5968-18)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)

## OPTIONAL ACCESSORIES

- MXA-MP, Modero X Series Multi Preview (FG5968-20)
- MXA-MPL, Modero X Series Multi Preview Live (FG5968-10)
- PS-POE-AF-TC, PoE Injector, 802.3AF Compliant (FG423-83)
- CB-MXP10, Rough-In Box and Cover Plate for Modero X Series Touch Panel, 10" (FG039-17)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)
- NXA-ENET8-2POE, Gigabit PoE Ethernet Switch (FG2178-63)
- CSG, Communications Gateway (FG2182-01,-02,-03)

## RECOMMENDED ACCESSORIES

## DESCRIPTION

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MXA-MP	Modero X Series Multi Preview	(FG5968-20)	316
MXA-MPL	Modero X Series Multi Preview Live	(FG5968-10)	314
PS-POE-AF-TC	PoE Injector, 802.3AF Compliant	(FG423-83)	322
MXA-CLK	Modero X Series Screen Cleaning Kit	(FG5968-16)	319
MXA-USB-C	USB Port Covers for the Modero X Series Touch Panels	(FG5968-18)	320
CB-MXP10	Rough-In Box and Cover Plate for the 10" Wall Mount Modero X Series Touch Panels	(FG039-17)	320
NXA-ENET8-2POE	Gigabit Ethernet Switch	(FG2178-63)	444
CSG	Communications Gateway	(FG2182-01,-02,-03)	430

1024 x 600  
widescreen  
Resolution

# MXT-700-NC

7" Modero X Series®  
Tabletop Touch Panel  
(no Camera, no Microphone)

(FG5968-27)



## OVERVIEW

The Modero X Series is the most elegant family of interfaces designed specifically for dedicated room control. This new generation of touch panels is built for usability offering edge-to-edge capacitive touch glass with multi-touch capabilities. The MXT-700-NC is designed to exclude the camera, Near Field Communication™ (NFC), microphone and Bluetooth capabilities of the original Modero X Series panel to meet the security requirements of facilities that do not allow these capabilities.

It features advanced technology empowering users to operate AV equipment seamlessly, while providing the ultimate in audio and video quality. The distinctive appearance will complement even the most sophisticated meeting facilities. With a lightning fast processor, brilliant graphics and enhanced capabilities, the Modero X Series is the control surface that simply delivers more.

## COMMON APPLICATION

The MXT-700-NC is ideal for federal, state, and local government or military facilities with strict security restrictions due to the storage, use, discussion or electronic processing of sensitive or classified information. It features modifications to support the added security measures necessary in secure environments such as sensitive compartmented information facilities, emergency operations centers or command headquarters. These modified panels give users robust functionality and capabilities while adhering to essential operational security guidelines.

## FEATURES

- **Graphic Leaps & Bounds** – The Modero X Series features intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities
- **Perfect From Any Angle** – Includes In-Plane Switching (IPS), the latest technology in popular tablet/mobile devices that delivers the widest viewing angles and the most accurate color reproduction on the market



## DEALER BENEFITS

- **Attract More Specialized Customers** – The elegant design and robust security modifications are ideal for niched customers increasing the breadth and depth of dealers' current customer portfolio
- **Address Unique Requirements** – With edge-to-edge glass and capacitive touch, the Modero X Series Touch Panels provide dealers with a control surface that is unobtrusive and simple to use
- **Differentiate Yourself** – The Modero X Series offers design and technology features unmatched in the industry

## CUSTOMER BENEFITS

- **Designed for Restricted Environments** – The modified features of this Modero X touch panel support the added security measures of many government and military facilities. Two-way transmission has been removed/disabled prohibiting any potential security threats
- **Simple to Use Interfaces** – The capacitive multi-touch and gesture-based screen makes it easy for anyone to operate sophisticated meeting room equipment and whole home systems
- **Range of Sizes** – The contemporary design with edge-to-edge glass is available in 7", 10.1" as well as 19.4" and 20.3" panoramic sizes for applications in any room
- **Sleek, Low-Profile Design** – The Modero X Series is engineered to sit perfectly on a table without obstructing views

**HELPFUL HINT**

The Modero X Series features intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities.

**WATCH THE VIDEO**

For an inside look at the features, technical capabilities and benefits of our touch panels, just visit our Modero X Series 'Videos By Category' playlist at: [youtube.com/amxtalk](https://youtube.com/amxtalk) and for "how-to" videos, visit 'Videos By Category' at: [youtube.com/amxconfigure](https://youtube.com/amxconfigure).

**TRAINING AVAILABLE**

For important installation, configuration and programming techniques, AMX University training is available. Just visit [www.amx.com/training](http://www.amx.com/training)

**AWARD WINNER**

- Winner of rAve's Best of Infocomm 2012 Awards - Best New Control System Hardware Product: **AMX's Modero X Series Touch Panels**
- Winner of Commercial Integrator's BEST Awards - Touchscreens: **Modero X Series Touch Panel (20.3")**

**D-TOOLS CERTIFIED PRODUCT**

This product can be found in the D-Tools manufacturer product database and specified as a third party device when building and proposing a system using D-Tools System Integrator software.

**G4 TECHNOLOGY**

This product features AMX's exclusive, powerful G4 graphics engine – the driving force behind the advanced graphics and image processing capability on a variety of AMX Touch Panels and other devices.

**SPECIFICATIONS****DIMENSIONS (HWD)**

5" x 7 5/16" x 4 1/8" (126 mm x 187 mm x 105 mm)

**WEIGHT**

1.8 lbs (0.82 Kg)

**POWER CONSUMPTION**

- Full-On: 8 W
- Standby: 3.2 W
- Shutdown: 1 W
- Start-Up Inrush Current: Not applicable due to PoE standard

**EXTERNAL POWER SUPPLY REQUIRED**

Optimal performance requires use of one of the following AMX PoE power supplies (not included):

- PS-POE-AF-TC, PoE Injector, 802.3AF Compliant (FG423-83)
- NXA-ENET8-2POE, Gigabit PoE Ethernet Switch (FG2178-63)

AMX does not support the use of non-AMX power supplies.

**CERTIFICATIONS**

- FCC Part 15 Class B
- C-Tick CISPR 22 Class B
- CE EN 55022 Class B and EN 55024
- CB Scheme IEC 60950-1
- IC
- IEC/EN-60950
- RoHS/WEEE compliant

**TOUCH SCREEN DISPLAY**

- Display Type: TFT Active Matrix Color LCD with Fringe Field Switching (FFS) - Wide Viewing Angle Technology
- Display Size (WH): Landscape: 7.3" x 4.8" (186 mm x 122 mm), 8.8" (222 mm) diagonal
- Viewable Area (WH): Landscape: 6.05" x 3.54" (154 mm x 90 mm), 7.0" (178 mm) diagonal
- Resolution (WH): Landscape: 1024x600
- Aspect Ratio (WH): Landscape: 16:9
- Brightness: 400 cd/m<sup>2</sup>
- Contrast Ratio: 800:1
- Color Depth: 16.7M colors
- Illumination: LED
- Touch Overlay: Projected capacitive, multi-touch support, 3 simultaneous max

**VIEWING ANGLE**

- Vertical: ± 89°
- Horizontal: ± 89°

**MEMORY**

- SDRAM: 512 MB
- Flash: 4 GB
- Maximum Project Size: 2.4 GB flash available to user

**COMMUNICATIONS**

- Ethernet: 10/100 port, RJ-45 connector. Supported IP and IP-based protocols: UCP, TCP, ICMP, ICSP, IGMP, DHCP, Telnet, FTP, DNS, RFB (for VNC), HTTP
- USB: (2) USB host 2.0, Type A ports (1 with limited physical access requiring right angle connection): Firmware upgrade, touch panel file transfer, JPEG image viewer, HID peripherals, USB audio output for headsets

**VIDEO**

- Supported Video Codecs:
  - MPEG-2-TS: MPEG-2 Main Profile@High Level up to 720p at 25 fps (decode only)
  - MPEG-2-TS: H.264 High Profile@Layer 4, AAC-LC up to 720p at 25 fps (decode)
  - MJPEG up to 720p at 25 fps (decode only)
- Supported Video Transport Streams: MPEG-TS for MPEG2 and H.264; HTTP for MJPEG
- Max Number of Active Video Streams: One decode

**AUDIO**

- Speakers: 4 ohm, 2 Watt, 300 Hz cutoff frequency
- Supported Audio Codecs:
  - MP2 Layer I and II, MP3 (8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz)
  - AAC-LC (8 kHz, 96 kHz)
  - G.711 with µLaw (decode at 8 kHz)
- File Formats: WAV, MP3 (as part of touch panel file only - no USB storage)

**GRAPHICS ENGINE**

- AMX G4: G4 enhanced feature set supporting multi-touch and gestures, scrolling, transitions - See TPD4 Operations Guide for more information

## EMBEDDED APPLICATIONS

- Remote Management: VNC Server, G4 Web Control, AMX Resource Management Suite
- Video Conferencing: Panel-to-panel and video chat (the MXT-700 receives video and returns audio)
- Audio Conferencing: Audio (Full Duplex Intercom)

## FRONT PANEL COMPONENTS

- Light Sensor: Photosensitive light detector for automatic adjustment of the panel brightness
- Proximity Detector: Max range = ~3', typ range = ~1', FOV = ~10 degrees
- Sleep Button: Sleep button to activate sleep mode and powering off. Also provides access to setup pages (can be disabled)

## CONNECTIONS

- Ethernet: 10/100 port, RJ-45 connector through cable extension
- USB: (2) USB host 2.0, Type A ports
- Power: PoE (Power over Ethernet), 802.3af, class 3

## ENVIRONMENTAL

- Temperature (Operating): 32° F to 104° F (0° C to 40° C)
- Temperature (Storage): 4° F to 140° F (-20° C to 60° C)
- Humidity (Operating): 20% to 85% RH
- Humidity (Storage): 5% to 85% RH
- Power ("Heat") Dissipation:
  - On: 18.5 BTU/hr
  - Standby: 10.6 BTU/hr

## INCLUDED ACCESSORIES

- MXA-USB-C, USB Port Cover Kit, Modero X Series Touch Panel (FG5968-18)
- 3/4" Mini-Grommet (FG570-01)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)

## OPTIONAL ACCESSORIES

- MXA-MP, Modero X Series Multi Preview (FG5968-20)
- MXA-MPL, Modero X Series Multi Preview Live (FG5968-10)
- PS-POE-AF-TC, PoE Injector, 802.3AF Compliant (FG423-83)
- HPG-10-10K, 3/4" Mini-Grommet, 10-Pack (FG570-01-10K)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)
- NXA-ENET8-2POE, Gigabit PoE Ethernet Switch (FG2178-63)
- CSG, Communications Gateway (FG2182-01,-02,-03)

## RECOMMENDED ACCESSORIES

## DESCRIPTION

## PART #

## PAGE #

MXA-MP	Modero X Series Multi Preview	(FG5968-20)	316
MXA-MPL	Modero X Series Multi Preview Live	(FG5968-10)	314
PS-POE-AF-TC	PoE Injector, 802.3AF Compliant	(FG423-83)	322
HPG-10-10K	3/4" Mini-Grommet, 10-Pack	(FG570-01-10K)	137
MXA-CLK	Modero X Series Screen Cleaning Kit	(FG5968-16)	319
NXA-ENET8-2POE	Gigabit Ethernet Switch	(FG2178-63)	444
MXA-USB-C	USB Port Covers for the Modero X Series Touch Panels	(FG5968-18)	320
CSG	Communications Gateway	(FG2182-01,-02,-03)	430

1024 x 600, 600 x 1024  
widescreen  
Resolution

# MXD-700-NC

7" Modero X Series®  
Wall Mount Touch Panel  
(no Camera, no Microphone)

Portrait Wall Mount Touch Panel (FG5968-28)

Landscape Wall Mount Touch Panel (FG5968-29)



## OVERVIEW

The Modero X Series is the most elegant family of interfaces designed specifically for dedicated room control. This new generation of touch panels is built for usability offering edge-to-edge capacitive touch glass with multi-touch capabilities. The MXD-700-P-NC and MXD-700-L-NC are designed to exclude the camera, Near Field Communication™ (NFC), microphone and Bluetooth capabilities of the original Modero X Series panel to meet the security requirements of facilities that do not allow these capabilities.

They feature advanced technology empowering users to operate AV equipment seamlessly, while providing the ultimate in audio and video quality. The distinctive appearance will complement even the most sophisticated meeting facilities. With a lightning fast processor, brilliant graphics and enhanced capabilities, the Modero X Series is the control surface that simply delivers more.

## COMMON APPLICATION

The MXD-700-P-NC and MXD-700-L-NC MXD-700 are ideal for federal, state, and local government or military facilities with strict security restrictions due to the storage, use, discussion or electronic processing of sensitive or classified information. It features modifications to support the added security measures necessary in secure environments such as sensitive compartmented information facilities, emergency operations centers or command headquarters. These modified panels give users robust functionality and capabilities while adhering to essential operational security guidelines.

## FEATURES

- **Graphic Leaps & Bounds** – The Modero X Series features intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities

- **Perfect From Any Angle** – Includes In-Plane Switching (IPS), the latest technology in popular tablet/mobile devices that delivers the widest viewing angles and the most accurate color reproduction on the market

## DEALER BENEFITS

- **Attract More Specialized Customers** – The elegant design and robust security modifications are ideal for niched customers increasing the breadth and depth of dealers' current customer portfolio
- **Address Unique Requirements** – With edge-to-edge glass and capacitive touch, the Modero X Series Touch Panels provide dealers with a control surface that is unobtrusive and simple to use
- **Differentiate Yourself** – The Modero X Series offers design and technology features unmatched in the industry

## CUSTOMER BENEFITS

- **Designed for Restricted Environments** – The modified features of this Modero X touch panel support the added security measures of many government and military facilities. Two-way transmission has been removed/disabled prohibiting any potential security threats
- **Simple to Use Interfaces** – The capacitive multi-touch and gesture-based screen makes it easy for anyone to operate sophisticated meeting room equipment and whole home systems
- **Range of Sizes** – The contemporary design with edge-to-edge glass is available in 7", 10.1" as well as 19.4" and 20.3" panoramic sizes for applications in any room
- **Choose Horizontal or Vertical Orientation** – The 7" Modero X Series Wall/Flush Mount Touch Panel has models engineered to mount horizontally or vertically giving design flexibility for specific applications such as room scheduling



**HELPFUL HINT**

The Modero X Series features intuitive UI functionality including: gesturing, swiping, dynamic reordering and enhanced animation capabilities.

**WATCH THE VIDEO**

For an inside look at the features, technical capabilities and benefits of our touch panels, just visit our Modero X Series 'Videos By Category' playlist at: [youtube.com/amxtalk](https://youtube.com/amxtalk) and for "how-to" videos, visit 'Videos By Category' at: [youtube.com/amxconfigure](https://youtube.com/amxconfigure).

**TRAINING AVAILABLE**

For important installation, configuration and programming techniques, AMX University training is available. Just visit [www.amx.com/training](http://www.amx.com/training)

**AWARD WINNER**

- Winner of rAve's Best of Infocomm 2012 Awards - Best New Control System Hardware Product: **AMX's Modero X Series Touch Panels**
- Winner of Commercial Integrator's BEST Awards - Touchscreens: **Modero X Series Touch Panel (20.3")**

**D-TOOLS CERTIFIED PRODUCT**

This product can be found in the D-Tools manufacturer product database and specified as a third party device when building and proposing a system using D-Tools System Integrator software.

**G4 TECHNOLOGY**

This product features AMX's exclusive, powerful G4 graphics engine – the driving force behind the advanced graphics and image processing capability on a variety of AMX Touch Panels and other devices.

**SPECIFICATIONS****DIMENSIONS (HWD)**

Landscape: 4 13/16" x 7 5/16" x 2 1/2" (122 mm x 186 mm x 63 mm)

Portrait: 7 5/16" x 4 13/16" x 2 1/2" (186 mm x 122 mm x 63 mm)

**WEIGHT**

1.4 lbs (0.64 Kg)

**POWER CONSUMPTION**

- Full-On: 8 W
- Standby: 3.2 W
- Shutdown: 1 W
- Start-Up Inrush Current: Not applicable due to PoE standard

**EXTERNAL POWER SUPPLY REQUIRED**

Optimal performance requires use of one of the following AMX PoE power supplies (not included):

- PS-POE-AF-TC, PoE Injector, 802.3AF Compliant (FG423-83)
- NXA-ENET8-2POE, Gigabit PoE Ethernet Switch (FG2178-63)

AMX does not support the use of non-AMX power supplies.

**CERTIFICATIONS**

- FCC Part 15 Class B
- C-Tick CISPR 22 Class B
- CE EN 55022 Class B and EN 55024
- CB Scheme IEC 60950-1
- IC
- IEC/EN-60950
- RoHS/WEEE compliant

**TOUCH SCREEN DISPLAY**

- Display Type: TFT Active Matrix Color LCD with Fringe Field Switching (FFS) - Wide Viewing Angle Technology
- Display Size (WH)
  - Landscape: 7.3" x 4.8" (186 mm x 122 mm), 8.8" (222 mm) diagonal
  - Portrait: 4.8" x 7.3" (122 mm x 186 mm), 8.8" (222 mm) diagonal
- Viewable Area (WH)
  - Landscape: 6.05" x 3.54" (154 mm x 90 mm), 7.0" (178 mm) diagonal
  - Portrait: 3.54" x 6.05" (90 mm x 154 mm), 7.0" (178 mm) diagonal
- Resolution
  - Landscape: 1024x600
  - Portrait: 600x1024

- Aspect Ratio
  - Landscape: 16:9
  - Portrait: 9:16
- Brightness: 400 cd/m2
- Contrast Ratio: 800:1
- Color Depth: 16.7M colors
- Illumination: LED
- Touch Overlay: Projected capacitive, multi-touch support, 3 simultaneous max

**VIEWING ANGLE**

- Vertical:  $\pm 89^\circ$
- Horizontal:  $\pm 89^\circ$

**MEMORY**

- SDRAM: 512 MB
- Flash: 4 GB
- Maximum Project Size: 2.4 GB flash available to user

**COMMUNICATIONS**

- Ethernet: 10/100 port, RJ-45 connector. Supported IP and IP-based protocols: UCP, TCP, ICMP, IGMP, DHCP, Telnet, FTP, DNS, RFB (for VNC), HTTP
- USB: (2) USB host 2.0, Type A ports (1 with limited physical access requiring right angle connection): Firmware upgrade, touch panel file transfer, JPEG image viewer, HID peripherals, USB audio output for headsets

**VIDEO**

- Supported Video Codecs:
  - MPEG2-TS: MPEG-2 Main Profile@High Level up to 720p at 25 fps (decode only)
  - MPEG-2-TS: H.264 High Profile@Layer 4, AAC-LC up to 720p at 25 fps (decode)
  - MJPEG up to 720p at 25 fps (decode only)
- Supported Video Transport Streams: MPEG-TS for MPEG2 and H.264; HTTP for MJPEG
- Max Number of Active Video Streams: One decode

## AUDIO

- Speakers: 4 ohm, 2 Watt, 300 Hz cutoff frequency
- Supported Audio Codecs:
  - MP2 Layer I and II, MP3 (8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz)
  - AAC-LC (8 kHz, 96 kHz)
  - G.711 with  $\mu$ Law (decode at 8 kHz)
- File Formats: WAV, MP3 (as part of touch panel file only - no USB storage)

## GRAPHICS ENGINE

- AMX G4: G4 enhanced feature set supporting multi-touch and gestures, scrolling, transitions - See TPD4 Operations Guide for more information

## EMBEDDED APPLICATIONS

- Remote Management: VNC Server, G4 Web Control, AMX Resource Management Suite

## FRONT PANEL COMPONENTS

- Light Sensor: Photosensitive light detector for automatic adjustment of the panel brightness
- Proximity Detector: Max range = ~3', typ range = ~1', FOV = ~10 degrees
- Sleep Button: Sleep button to activate sleep mode and powering off. Also provides access to setup pages (can be disabled)

## CONNECTIONS

- Ethernet: 10/100 port, RJ-45 connector through cable extension
- USB: (2) USB host 2.0, Type A ports
- Power: PoE (Power over Ethernet), 802.3af, class 3

## ENVIRONMENTAL

- Temperature (Operating): 32° F to 104° F (0° C to 40° C)
- Temperature (Storage): 4° F to 140° F (-20° C to 60° C)
- Humidity (Operating): 20% to 85% RH
- Humidity (Storage): 5% to 85% RH
- Power ("Heat") Dissipation:
  - On: 18.5 BTU/hr
  - Standby: 10.6 BTU/hr

## INCLUDED ACCESSORIES

- MXA-USB-C, USB Port Cover Kit, Modero X Series Touch Panel (FG5968-18)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)

## OPTIONAL ACCESSORIES

- MXA-MP, Modero X Series Multi Preview (FG5968-20)
- MXA-MPL, Modero X Series Multi Preview Live (FG5968-10)
- PS-POE-AF-TC, PoE Injector, 802.3AF Compliant (FG423-83)
- CB-MXP7, Rough-In Box, Modero X Series Touch Panel, 7" (FG039-18)
- MXA-CLK, Modero X Series Cleaning Kit (FG5968-16)
- NXA-ENET8-2POE, Gigabit PoE Ethernet Switch (FG2178-63)
- CSG, Communications Gateway (FG2182-01,-02,-03)

## RECOMMENDED ACCESSORIES

	DESCRIPTION	PART #	PAGE #
MXA-MP	Modero X Series Multi Preview	(FG5968-20)	316
MXA-MPL	Modero X Series Multi Preview Live	(FG5968-10)	314
PS-POE-AF-TC	PoE Injector, 802.3AF Compliant	(FG423-83)	322
MXA-CLK	Modero X Series Screen Cleaning Kit	(FG5968-16)	319
MXA-USB-C	USB Port Covers for the Modero X Series Touch Panels	(FG5968-18)	320
CB-MXP7	Rough-In Box and Cover Plate for the 7" Wall Mount Modero X Series Touch Panels	(FG039-18)	321
NXA-ENET8-2POE	Gigabit Ethernet Switch	(FG2178-63)	444
CSG	Communications Gateway	(FG2182-01,-02,-03)	430

# MVP-5200i

## 5" Modero® ViewPoint® Touch Panel with Intercom

- Gloss Black MVP-5200i-GB (FG5966-03)
- Gloss White MVP-5200i-GW (FG5966-04)

800 x 480  
widescreen  
Resolution



### OVERVIEW

Available in black (FG5966-03) and white (FG5966-04), the MVP-5200i is a wireless-only ergonomic device capable of VoIP intercom telephone communications, quick wakeup and connection time and extended battery life for longer operation between charges. Models include a 5" TFT Active Matrix LCD to display an 800 x 480 pixel image with 16.7M colors.

### COMMON APPLICATION

Ideal in residences for wireless control in home theaters and whole home systems as well as in-wall placement for digital intercom and entry communications. Perfect for boardrooms/conference rooms for controlling the AV equipment used for presentations and training.

### FEATURES

- Ultra-light, compact and thin form factor
- Available in your choice of high-gloss black or high-gloss white
- Navigation wheel provides simple (up/down) or sophisticated control (up/down, right/left, select)
- Full Duplex VoIP Intercom and SIP Telephone (requires AMX Communications Gateway) Ready
- 802.11g WiFi for two-way network communications
- Wireless communications remain secure using WEP, WPA, WPA2, EAP-TLS, EAP-TTLS and PEAP network security standards
- Enhanced usability with microphone and speakers
- Versatile placement options including integrated kickstand, table charging station and wall charging station



#### WATCH THE VIDEO

See the MVP-5200i in action by watching the video profile online at:  
[www.amx.com/assets/videos/MVP-5200i.mp4](http://www.amx.com/assets/videos/MVP-5200i.mp4)



#### TRAINING AVAILABLE

For important installation, configuration and programming techniques, AMX University training is available. Just visit [www.amx.com/training](http://www.amx.com/training)



#### AWARD WINNER

The MVP-5200i was awarded the "High Impact Product of the Year" from CE Pro and the "RESI Award - Best Touchscreen Control Panel" from Residential Systems.



#### D-TOOLS CERTIFIED PRODUCT

This product can be found in the D-Tools manufacturer product database and specified as a third party device when building and proposing a system using D-Tools System Integrator software.



#### REVIT BIM

This product is part of the Autodesk Revit database and can be specified in designs for Building Information Modeling (BIM). Download the associated Revit .rfa file from the Autodesk SEEK Web site. It is also searchable under 'AMX' in any Autodesk application.



#### COUNTRY OF ORIGIN: MEXICO

To satisfy the requirements/regulations of existing or future government programs, this two-letter code is being provided to designate the country of origin for this product.



#### G4 TECHNOLOGY

This product features AMX's exclusive, powerful G4 graphics engine – the driving force behind the advanced graphics and image processing capability on a variety of AMX Touch Panels and other devices.



All On	Average Usage	Sleep Mode	Estimated Usage	AMX Energy Savings
25 kWh ANNUAL ENERGY CONSUMPTION	or 3 kWh ANNUAL ENERGY CONSUMPTION	+ 2 kWh ANNUAL ENERGY CONSUMPTION	= 5 kWh ANNUAL ENERGY CONSUMPTION	80% ANNUAL ENERGY SAVINGS USING RMS & SMART PROGRAMMING



#### DID YOU KNOW?

**It's A Digital Speakerphone.** With the MVP-5200i, local, long distance and international phone calls can be placed and received at the push of a button, simply by adding an AMX Communications Gateway to your NetLinX control system.



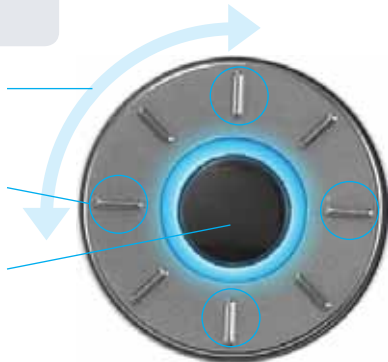
## A CLOSER LOOK

Clockwise/counter-clockwise rotation for adjusting up/down volume, lights and other applications

Top, bottom, left and right buttons to activate functions such as track forward

Middle button for "Enter/Select"

Wheel buttons can always be the same or can be programmed to be source dependent



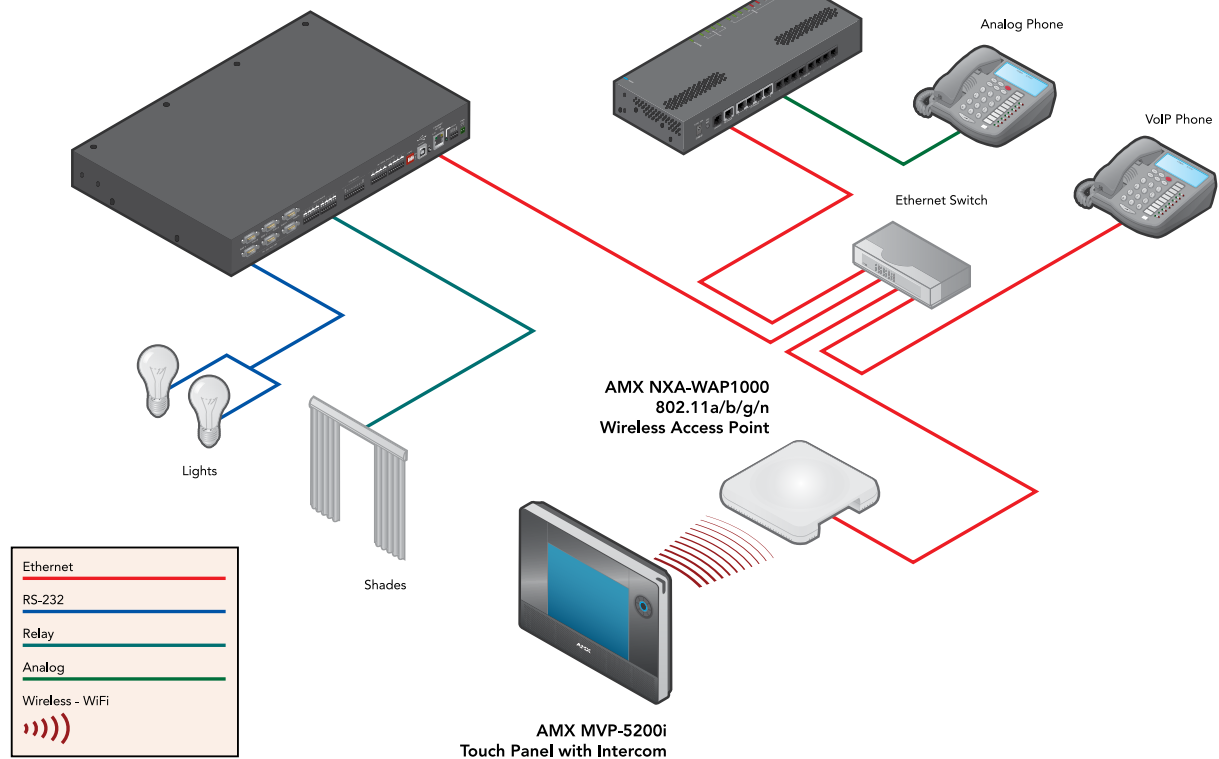
Wall Charger MVP-WCS-52



Table Charger MVP-TCS-52

AMX NetLink NI-3101  
Signature Series Integrated Controller  
(back view of controller)

AMX Communications Gateway 544  
(back view of gateway)



## SPECIFICATIONS

## DIMENSIONS (HWD)

- Touch Panel: 4 3/4" x 7 9/16" x 13/16" (12.7 cm x 19.1 cm x 2.0 cm)
- Total Packaging Dimensions: 6 1/4" x 5 1/8" x 5" (14.2 cm x 6.5 cm x 4.1 cm)

## WEIGHT

- Touch Panel: 1.4 lbs (604 g)
- Total Shipping Weight: 2.3 lbs (1.2 g)

## POWER REQUIREMENTS (WITHOUT CHARGING)

Panel with battery fully charged or with no battery:

- Constant current draw: 0.32 A @ 12 VDC
- Startup current draw: 0.35 A @ 12 VDC

## POWER REQUIREMENTS (WHILE CHARGING)

Panel while charging battery:

- Constant current draw: 1.06 A @ 12 VDC
- Startup current draw: 1.08 A @ 12 VDC

## MINIMUM POWER SUPPLY REQUIRED

PS3.0 Power Supply (FG423-30): All MVP-5200i models are shipped with this power supply

## POWER MODES

- On: All necessary modules are powered up and device remains online with the NetLinX Master.
- Sleep: Only the backlight will be turned off after the user selectable time of inactivity has elapsed. Panel resumes the ON mode in ~ 1 second.
- Shutdown: Power to all modules and components is turned off. The unit remains in this mode until either it is rebooted or the battery is completely shut down.

## CERTIFICATIONS

- FCC Part 15 Class B and CE
- CE
- IEC 60950
- RoHS
- Japan Approved
- Lithium-polymer microbattery: UN/IATA

## BATTERY DURATION

- On mode – 5.1 hours of battery life
- Sleep mode – 8.5 hours of battery life

## MEMORY

- 128 MB Mobile DDRAM (upgrade not available)
- 256 MB NAND FLASH (upgrade not available)

## SCREEN PROPERTIES

- Size: 5.0" (12.59 cm)
- Screen resolution: 800 x 480 pixels (HV) @ 60 Hz frame frequency
- Type: WVGA
- Aspect ratio: 16 x 9
- Brightness (luminance): 300 cd/m2
- Channel transparency: 8-bit Alpha blending
- Contrast ratio: 600:1
- Display colors: 16M colors (24-bit color depth)
- Dot/pixel pitch: 0.135 x 0.135 mm
- Panel type: TFT Color Active-Matrix

## VIEWING ANGLE

- Vertical: + 50° (up from center) and - 70° (down from center)
- Horizontal: + 70° (left from center) and - 70° (right from center)

## EXTERNAL COMPONENTS

- Connector: 5-pin Mini-USB connector used for audio output to USB headphones, programming, firmware updates, and touch panel file transfer between the PC and the target panel.  
Note: When connecting the panel to PC using a CC-USB (or compatible) cable, be sure to power the panel On before attempting to connect the USB cable from the PC to the mini-USB port on the panel.
- DC Power Port: 2.5 mm port to power the panel away from a charging station
- Stylus Slot: Slot where the included stylus is stored, located on the right side of the device
- Microphone: For use with the intercom feature  
- Frequency: 20 to 160,000 Hz  
- S/N Ratio: More than 58 dB
- Speaker: 4 Ohm, 2 W 300 Hz cutoff frequency
- Audio Standards: G7.11 sound standard, 75 dB SPL@1m

## INTERNAL COMPONENTS

IR Emitters: Transmit IR over 20 feet (6.10 m) from the panel.

- IR emitters on G4 panels share the device address number of the panel.
- Transmits AMX fixed frequencies at 38 kHz and 455 kHz and user programmable frequencies from 20 kHz to 1.5 MHz

## ENVIRONMENTAL

- Operating Temperature: 0° C (32° F) to 40° C (104° F)
- Operating Humidity: 20% to 85% RH
- Storage Temperature: -20° C (-4° F) to 60° C (140° F)
- Storage Humidity: 5% to 85% RH

## INCLUDED ACCESSORIES

- PS3.0 Power Supply (FG423-30)
- Stylus (pre-installed onto the left side of the unit)
- Integrated battery

## RECOMMENDED ACCESSORIES

## DESCRIPTION

## PART #

## PAGE #

MVP-TCS-52	Table Charging Station	(FG5966-1X)	335
MVP-WCS-52	Wall Charging Station	(FG5966-1X)	337
CSG	Communications Gateway	(FG2182-01,-02,-03)	430
MVP-STYLUS-52	Replacement Stylus, Pack of 3	(FG5966-21/22)	340
CC-USB	USB Programming Cable	(FG10-5965)	339
CC-HPADAPTER	Headphone Adapter Cable	(FG5966-23)	339
NXA-WAP1000	Smart Wireless Access Point	(FG2255-51/53)	342

# MVP-5150

## 5" Modero® ViewPoint® Wi-Fi Touch Panel

■ Gloss Black MVP-5150 (FG5966-09)

800 x 480  
widescreen  
Resolution



### OVERVIEW

The MVP-5150 delivers high-end style and just the right features in a sleek, sexy, ultra-compact design. The MVP-5150 is perfect for installations desiring the sleek, sexy design of the MVP-5200i, but do not need all of its features. The MVP-5150 offers both Wi-Fi and one-way IR communication giving the user instant control of virtually any device in the home or office.

### COMMON APPLICATION

Ideal for 802.11 b/g wireless control of home theaters as well as a variety of devices and systems throughout residences and commercial facilities.

### FEATURES

- Ultra-light, compact and thin form factor that is easy to hold
- Wi-Fi and 1-way IR signal communications
- Color active - matrix TFT with 16:9 aspect ratio
- Screen Resolution – 800x480
- Elegant high-gloss black styling
- Charging options include table charging station (MVP-TCS52) and wall charging station (MVP-WCS52)



#### DID YOU KNOW?

**Always By Your Side.** With integrated 802.11 b/g wireless capability, the MVP-5150 can control anything in your control system from just about anywhere in your residence or facility.



#### TRAINING AVAILABLE

For important installation, configuration and programming techniques, AMX University training is available. Just visit [www.amx.com/training](http://www.amx.com/training)



#### READ MORE ABOUT IT

You can learn more about the MVP-5150 in the "Touch Panels Brochure" as well as experience it's actual size and shape with the "MVP-5150 Actual Size Product Card". Both are available online at: [www.amx.com/newsroom/literature.asp?category=AMX Brochures](http://www.amx.com/newsroom/literature.asp?category=AMX%20Brochures)



#### D-TOOLS CERTIFIED PRODUCT

This product can be found in the D-Tools manufacturer product database and specified as a third party device when building and proposing a system using D-Tools System Integrator software.



#### REVIT BIM

This product is part of the Autodesk Revit database and can be specified in designs for Building Information Modeling (BIM). Download the associated Revit .rfa file from the Autodesk SEEK Web site. It is also searchable under 'AMX' in any Autodesk application.



#### COUNTRY OF ORIGIN: MEXICO

To satisfy the requirements/regulations of existing or future government programs, this two-letter code is being provided to designate the country of origin for this product.



#### G4 TECHNOLOGY

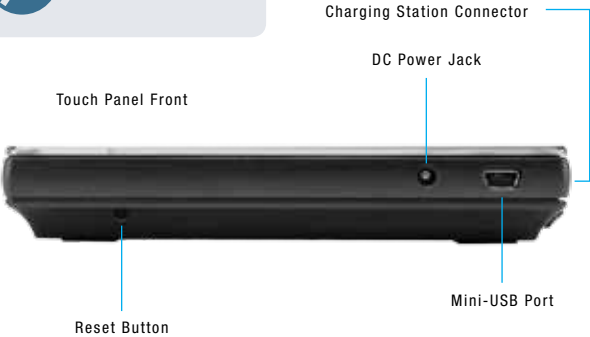
This product features AMX's exclusive, powerful G4 graphics engine – the driving force behind the advanced graphics and image processing capability on a variety of AMX Touch Panels and other devices.



All On	Average Usage	Sleep Mode	Estimated Usage	AMX Energy Savings
25 kWh	3 kWh	2 kWh	5 kWh	80%
ANNUAL ENERGY CONSUMPTION	ANNUAL ENERGY CONSUMPTION	ANNUAL ENERGY CONSUMPTION	ANNUAL ENERGY CONSUMPTION	ANNUAL ENERGY SAVINGS USING RMS & SMART PROGRAMMING



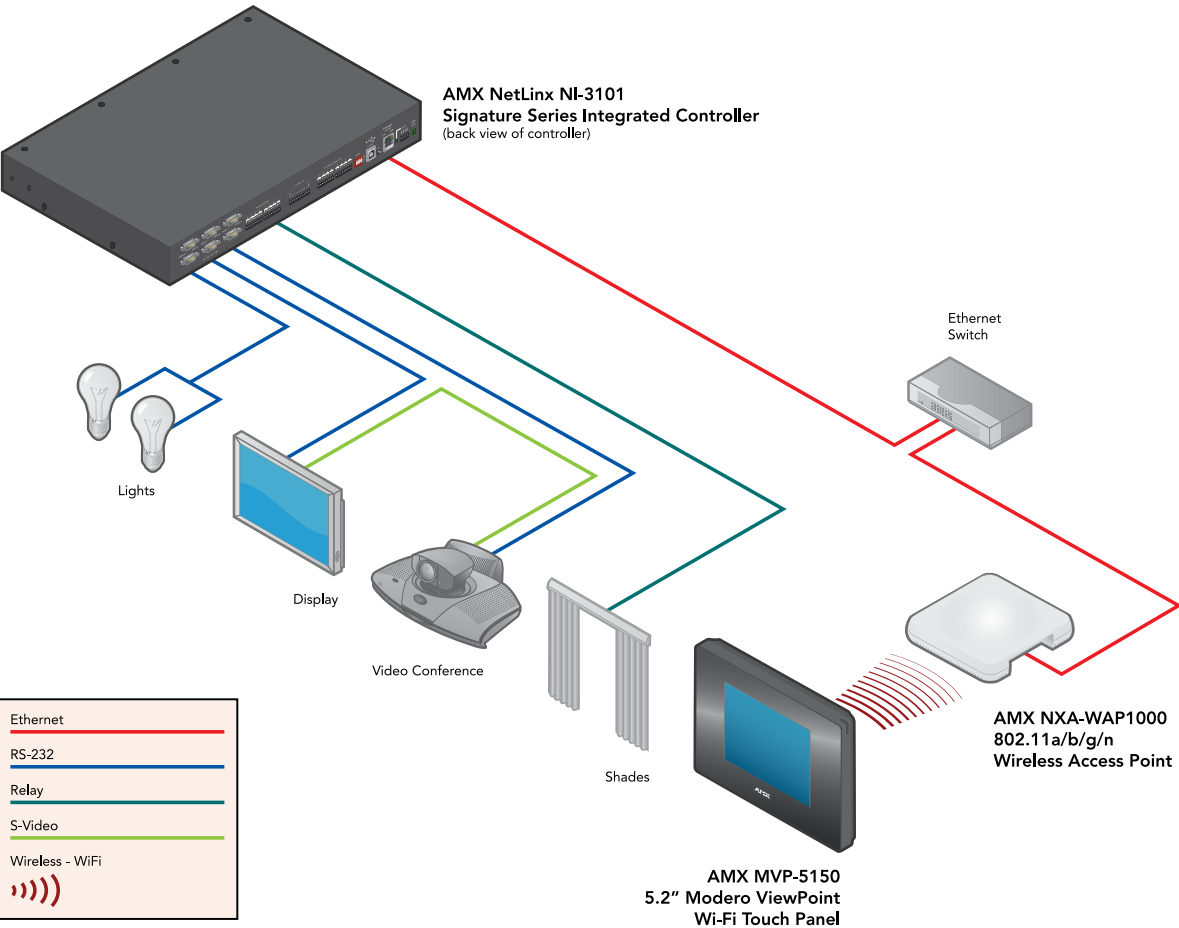
A CLOSER LOOK



Wall Charger MVP-WCS-52



Table Charger MVP-TCS-52





## SPECIFICATIONS

## DIMENSIONS (HWD)

4 3/4" x 7 9/16" x 13/16" (12.1 cm x 19.2 cm x 2.0 cm)

## WEIGHT

1.25 lbs (570 grams)

## POWER REQUIREMENTS (WITHOUT CHARGING)

Panel with battery fully charged or with no battery:

- Constant current draw: 0.29 A @ 12 VDC
- Startup current draw: 0.37 A @ 12 VDC

## POWER REQUIREMENTS (WHILE CHARGING)

Panel while charging battery:

- Constant current draw: 1.04 A @ 12 VDC
- Startup current draw: 1.07 A @ 12 VDC

## MINIMUM POWER SUPPLY REQUIRED

PS3.0 Power Supply (FG423-30) - both 120 VAC and 240 VAC models are shipped with this power supply

## POWER MODES

- On: All necessary modules are powered up and device remains online with the NetLinX Master
- Sleep: Only the backlight will be turned off after the user selectable time of inactivity has elapsed. Panel resumes the ON mode in ~ 1 second upon a momentary press of the touchscreen.
- Shutdown: Power to all peripherals and components is turned off. The system remains in this mode until either it is rebooted or the battery is completely drained. The panel is re-activated by pressing the touchscreen and holding until the AMX splash screen appears.

## CERTIFICATIONS

- FCC Part 15 Class B
- CE
- IEC/EN-60950
- RoHS
- Japan Approved
- Lithium-polymer microbattery: UN/IATA

## BATTERY DURATION

- On mode – 5.1 hours of battery life
- Sleep mode – 8.5 hours of battery life

## MEMORY

- 128 MB Mobile DDRAM (upgrade not available)
- 256 MB NAND Flash (upgrade not available)

## SCREEN PROPERTIES

- Size: 5.0" (12.59 cm)
- Screen resolution: 800 x 480 pixels (HV) @ 60 Hz frame frequency
- Type: WVGA
- Aspect ratio: 16:9
- Brightness (luminance): 300 cd/m<sup>2</sup>
- Channel transparency: 8-bit Alpha blending
- Contrast ratio: 600:1
- Display colors: 16M colors (24-bit color depth)
- Dot/pixel pitch: 0.135 x 0.135 mm
- Panel type: TFT Color Active-Matrix

## VIEWING ANGLE

- Vertical: +50° (up from center) and -70° (down from center)
- Horizontal: +70° (left from center) and -70° (right from center)

## EXTERNAL COMPONENTS

Connector: 5-pin Mini-USB connector used for output to USB programming, firmware update, and touch panel file transfer between the PC and the target panel.

Note: When connecting the panel to PC using a CC-USB (or compatible) cable, be sure to power the panel On before attempting to connect the USB cable from the PC to the mini-USB port on the panel.

## INTERNAL COMPONENTS

IR Emitters: Transmit IR over 20 feet (6.10 m) from the panel.

- IR emitters on G4 panels share the device address number of the panel.
- Transmits AMX fixed frequencies at 38 kHz and 455 kHz and user programmable frequencies from 20 kHz to 1.5 MHz

## ENVIRONMENTAL

- Operating Temperature: 0° C (32° F) to 40° C (104° F)
- Operating Humidity: 5% to 85% RH
- Storage Temperature: -20° C (-4° F) to 60° C (140° F)
- Storage Humidity: 5% to 85% RH

## INCLUDED ACCESSORIES

- Installation Guide (93-5966-07)
- PS3.0 Power Supply (FG423-30)

## RECOMMENDED ACCESSORIES

## DESCRIPTION

## PART #

## PAGE #

MVP-TCS-52	Table Charging Station
MVP-WCS-52	Wall Charging Station
MVP-STYLUS-52-GB	Black Replacement Stylus, Pack of 3
CC-USB	USB Programming Cable
NXA-WAP1000	Smart Wireless Access Point
CC-HPADAPTER	Headphone Adapter Cable

(FG5966-1x)	335
(FG5966-1x)	337
(FG5966-21)	340
(FG10-5965)	339
(FG2255-51/53)	342
(FG5966-23)	339

# MVP-9000i

## 9" Modero® ViewPoint® Touch Panel with Intercom

Black	MVP-9000i-GB	(FG5967-01)
White	MVP-9000i-GW	(FG5967-02)



800 x 480  
widescreen  
Resolution



### OVERVIEW

The MVP-9000i redefines touch panel control offering both wireless and wired functionality, new user interface capabilities like gestures and page transitions, a stunning 9" widescreen 24-bit color display, full digital duplex telephone or intercom interface and built-in 802.11a/b/g Wi-Fi card with antenna diversity. The MVP-9000i switches seamlessly to wireless mode when removed from the PoE docking station. Transfer touch panel pages, upgrade the firmware or display photo files using the USB or mini-SD card slot. Available in white or black, the MVP-9000i also features a capacitive navigation pad, 4 programmable buttons, over 1 GB of useable flash memory and supports 5 hours of continuous use and three days of standby time.

### COMMON APPLICATION

Ideal for a wide variety of residential and commercial control and automation applications where flexibility of docked or mobile 802.11a/b/g functionality and extended battery life is desired. This is an ideal solution for extremely noisy wireless environments like MDUs and applications that require telephone/intercom functionality.

### FEATURES

- Automatically switches between Ethernet connectivity when docked and Wi-Fi when out of dock
- New user interface capabilities including gesturing and 7 different page transitions
- International Fonts Support - The MVP-9000i provides support for right to left languages such as Arabic, a combination of language styles (right to left, and left to right) can also be used allowing inclusion of Arabic and English on the same screen
- 802.11a/b/g Wi-Fi with antenna diversity for improved wireless reliability and features enhanced wireless security protocol
- Extended battery life - five hours of continuous use and three days of standby time
- Micro-SD and USB stick support for easy file and photo uploads
- VoIP intercom and SIP telephone (requires AMX Gateway) ready

### KEY DEALER BENEFITS

- Increased Wireless Reliability - Antenna diversity improves wireless reliability by integrating two antennas that smartly switch to the strongest signal, which ultimately decreases the number of lost connections and unhappy end users
- Flexible Installation Options - Rough-in box (optional) can be mounted in drywall, concrete, brick and a variety of uneven or solid surfaces
- Easily Update Firmware and Touch Panel Pages - Leave the PC at office and easily transfer new Touch Panel pages or update the firmware directly from a micro-SD or USB stick



All On	Average Usage	Sleep Mode	Estimated Usage
116kWh	or 17kWh	+ 4kWh	= 20kWh
ANNUAL ENERGY CONSUMPTION	ANNUAL ENERGY CONSUMPTION	ANNUAL ENERGY CONSUMPTION	ANNUAL ENERGY CONSUMPTION

AMX Energy Savings  
**83%**  
ANNUAL ENERGY SAVINGS USING RMS & SMART PROGRAMMING



#### DID YOU KNOW?

**Wired and Wireless.** The MVP-9000i combines the speed and security of a wired Ethernet connection with the freedom of an 802.11 a/b/g wireless connection. It's engineered to automatically switch between Ethernet connectivity when docked and Wi-Fi when out of dock delivering both tabletop and in-wall control.



#### WATCH THE VIDEO

See the MVP-9000i in action live from InfoComm 2010 by watching the video profile online at: [www.amx.com/assets/videos/MVP-9000i.mp4](http://www.amx.com/assets/videos/MVP-9000i.mp4)



#### READ MORE ABOUT IT

Network security, performance, reliability and diagnostics - these are a few of the benefits the MVP-9000i's Cisco Compatible Extensions Certification. Read the full story in AMX's White Paper: **Benefits of CCX Certification for the Modero MVP-9000i Touch Panel.**



#### AWARD WINNER

The MVP-9000i was awarded the "Best Wireless Control Device - Gold" and "Best Wired Control Device - Gold" Awards from SVI Trade 2011.



## A CLOSER LOOK

## GESTURING AND PAGE FLIPS: THE LATEST IN MODERO PAGE TRANSITIONS

The MVP-9000i features several cool new user interface features including the ability to gesture or transition from page to page. With a simple swipe of the screen, page after page magically flip to the next just like turning the pages of a book. Seven new page transition options are available.



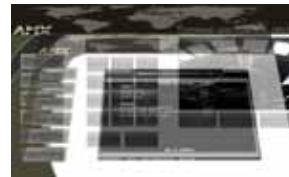
Page Curl



Black Glass



Center Door Fade



Door Fade



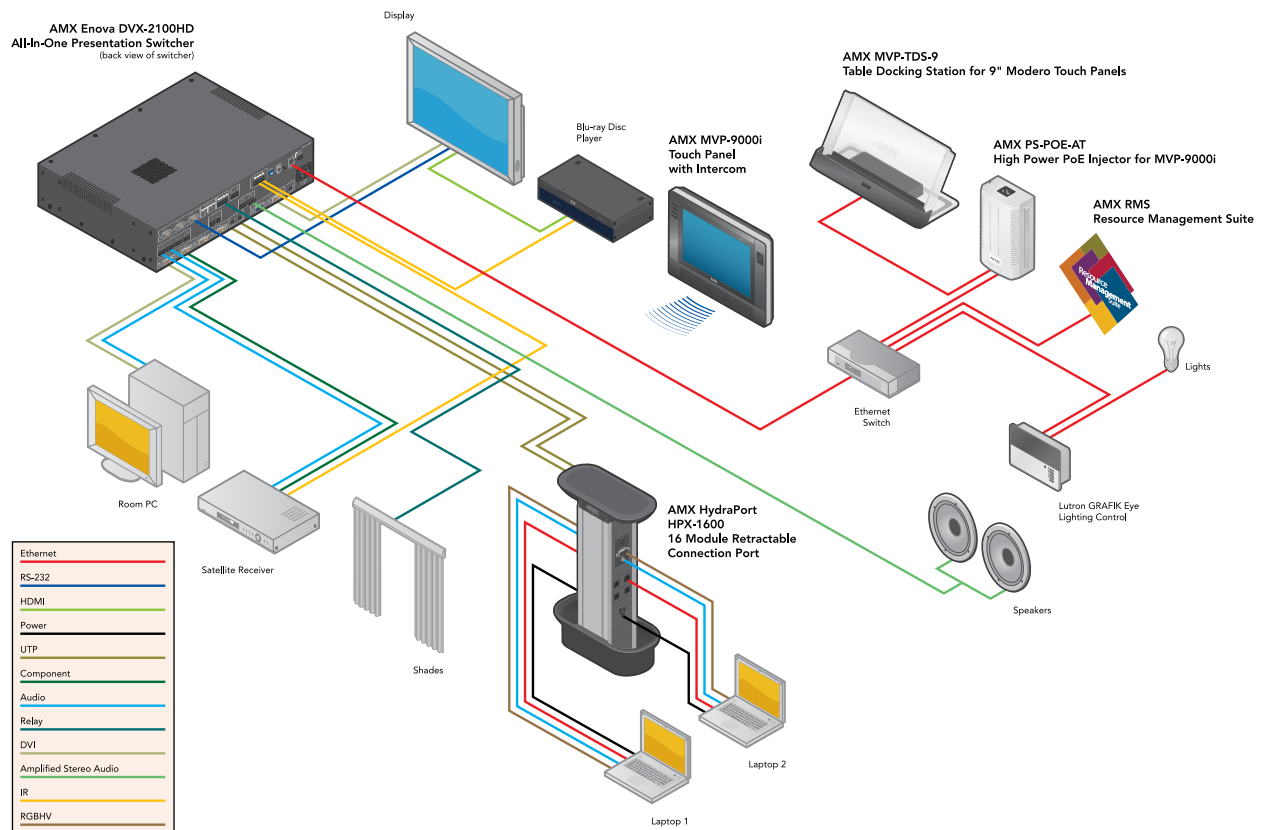
Fade



Slide Bounce



Slide



## SPECIFICATIONS

## DIMENSIONS (HWD)

7 5/8" x 11" x 1 1/16" (19.4 cm x 27.9 cm x 2.7 cm)

## WEIGHT

3.60 lbs (1.63 kg)

## POWER REQUIREMENTS (WITHOUT CHARGING)

Panel with battery fully charged or with no battery:

- Constant current draw: 1.1 A @ 12 VDC
- Startup current draw: 1.2 A @ 12 VDC
- Auto Dim current draw: 0.6 A @ 12 VDC
- Sleep current draw: 0.4 A @ 12 VDC
- Standby current draw: 0.07 A @ 12 VDC
- If panel is mounted onto a TDS or WDS, add 0.1 A to the above figures

## POWER REQUIREMENTS (WHILE CHARGING)

Panel while charging battery:

- Constant current draw: 2.0 A @ 12 VDC
- Auto Dim current draw: 0.5 A @ 12 VDC
- Sleep current draw: 0.3 A @ 12 VDC
- Standby current draw: NA
- If panel is mounted onto a TDS or WDS, add 0.1 A to the above figures

## MINIMUM POWER SUPPLY REQUIRED

- PS3.0 Power Supply (FG423-30)
- PS-POE-AT High Power PoE Injector (FG423-81) through the Table Docking Station and Wall Docking Station (included with docking stations)

## POWER MODES

- On: All necessary modules are powered up and device remains online with the Netlinx Master
- Asleep: Only the backlight will be turned off after the user selectable time of inactivity has elapsed. Panel resumes the ON mode in ~ 1 second
- Standby: Power to all components other than the touch screen is turned off after the user selectable time of inactivity has elapsed. Device will turn back on by touching the screen
- Shutdown: Power to all peripherals and components is turned off. The system remains in this mode until it is rebooted

## BATTERY DURATION

- Five hours of continuous use
- Three days standby time

## MEMORY

2GB internal microSD (1.1GB accessible to user)

## SCREEN PROPERTIES

- Screen resolution: 800 x 480 pixels (HV) @ 60 Hz refresh rate
- Aspect ratio: 16 x 9
- Brightness (luminance): 400 cd/m2
- Channel transparency: 8-bit Alpha blending
- Contrast ratio: 900:1 max.
- Display colors: 16.7M colors (8-bit color depth)
- Dot/pixel pitch: 0.246 mm
- Panel type: TFT Color Active-Matrix

## ACTIVE SCREEN AREA

- 7 3/4" x 4 1/2" (19.7 cm x 11.8 cm)
- 9" (diagonal)

## VIEWING ANGLE

Up/Down/Left/Right: 85/85/85/85

## AUDIO

Mono speaker: 4 Ohm, 2 Watts 300Hz cutoff frequency

## INFRARED COMMUNICATION

IR Transmit only, including AMX 38KHz, AMX 455KHz, and 3rd party IR

## OPERATION/STORAGE ENVIRONMENTAL

- Operating Temperature: 0° C (32° F) to 40° C (104° F)
- Battery Charging Temperature: 0° C (32° F) to 30° C (86° F)
- Operating & Battery Charging Humidity: 20% to 85% RH
- Storage Temperature: -20° C (-4° F) to 60° C (140° F)
- Storage Humidity: 5% to 85% RH

## INCLUDED ACCESSORIES

- PS3.0 Power Supply (FG423-30)
- Stylus (pre-installed onto the left side of the unit)

## RECOMMENDED ACCESSORIES

## DESCRIPTION



## PART #

## PAGE #

MVP-TDS-9	Table Docking Station	(FG5967-1X)	336
MVP-WDS-9	Wall/Flush Mount Docking Station	(FG5967-1X)	338
CB-MVP-WDS9	Rough-In Box for Wall Docking Station	(FG038-13)	341
CB-MVP-WBS9B	Rough-In Box Back for Wall Docking Station	(FG038-14)	341
MVP-STYLUS-52	Replacement Stylus, Pack of 3	(FG5966-21/22)	340
CC-MINIUSB	Mini USB to PC Cable Adapter	(FG5967-20)	339
CSG	Communications Gateway	(FG2182-01,-02,-03)	430
NXA-MSD2GB	MicroSD Card – 2 GB	(FG2116-80)	332
NXA-MSD4GB	MicroSD Card – 4 GB	(FG2116-81)	332
NXA-WAP1000	Smart Wireless Access Point	(FG2255-51/53)	342
NXA-ENET8-2POE	Gigabit PoE Ethernet Switch	(FG2178-63)	444

# NXD-430

## 4.3" Modero® Wall/Flush Mount Touch Panel

	White	NXD-430-WH	(FG2262-02)
	Black	NXD-430-BL	(FG2262-01)



### OVERVIEW

Introducing the most compact Modero Touch Panel ever created. With a screen size measuring just 4.3 inches across, the NXD-430 is the ideal solution for a wide range of applications in the home or office. Engineered for style, value, efficiency and functionality; its bright touch screen, sleek form factor, ultra-thin, two-inch mounting depth, Power over Ethernet (PoE) capability, and value-oriented price make the NXD-430 the perfect entry point to home or building automation. The NXD-430 also includes a capacitive-touch external button for executing a quick function or device.

### COMMON APPLICATION

The NXD-430 is perfect for wall/flush mount control in a variety of cost-sensitive applications where touch panel control offers many more control/automation possibilities than a similarly priced keypad or remote: locations such as entryways, bedrooms, bathrooms, kitchens, podiums and other surface mount locations.

### FEATURES

- Compact 4.3" size
- 16x9 WQVGA color display
- Screen resolution (HV): 480 x 272 pixels
- Available in a high-gloss and textured matte combination finish in your choice of black or white
- Power over Ethernet (PoE)
- 128 MB Standard memory / 256 MB Flash memory
- 1 capacitive-touch external button
- Ultra-thin 2" depth for versatile installation options
- Locking tabs for quick and easy installation
- Translucent backbox
- Supports AMX Resource Management Suite®



All On	Average Usage	Sleep Mode	Estimated Usage	AMX Energy Savings
105 kWh	13 kWh	21 kWh	34 kWh	67%
ANNUAL ENERGY CONSUMPTION	ANNUAL ENERGY CONSUMPTION	ANNUAL ENERGY CONSUMPTION	ANNUAL ENERGY CONSUMPTION	ANNUAL ENERGY SAVINGS USING RMS & SMART PROGRAMMING

480 x 272  
widescreen  
Resolution



#### HELPFUL HINT

The NXD-430 can be installed into any solid surface environment, using either solid surface screws or the included locking tabs for different mounting options.

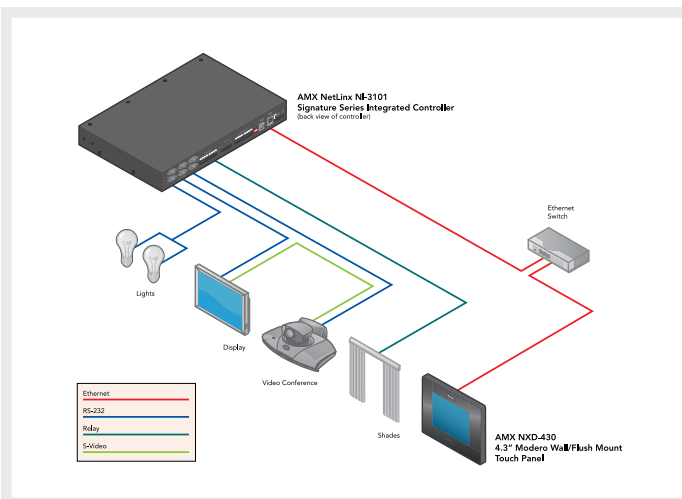
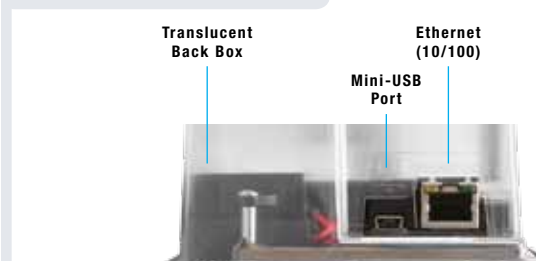


#### TRAINING AVAILABLE

For important installation, configuration and programming techniques, AMX University training is available. Just visit [www.amx.com/training](http://www.amx.com/training)



#### A CLOSER LOOK



## SPECIFICATIONS

## DIMENSIONS (HWD)

- NXD-430: 5 1/2" x 4 1/8" x 2 1/8" (14 cm x 10.5 cm x 5.4 cm)
- CB-TP5i Rough-In/Wallbox (optional): 6 3/4" x 9 5/16" x 1 7/16" (171 mm x 236 mm x 36 mm)

## WEIGHT

10.4 oz (290 g)

## POWER REQUIREMENTS

- PoE Powered - No local Power Supply needed
- Max power draw: 5.5W

## PANEL LCD PARAMETERS

- Aspect ratio: 16 x 9
- Minimum brightness (luminance): 280 cd/m2
- Channel transparency: 8-bit Alpha blending
- Contrast ratio: 250:1
- Display colors: 256 K colors (18-bit color depth)
- Dot/pixel pitch: 0.14 mm
- Panel type: WQVGA
- Screen Resolution: 480 x 272 pixels (HV) @ 60 Hz frame frequency
- Viewing Dimensions: 2 3/16" x 3 13/16" (5.5 cm x 9.6 cm)
- Active Screen Area: 2 1/8" x 3 3/4" (5.4 cm x 9.5 cm)

## VIEWING ANGLE

Left/Right /Up/Down: 80/80/60/80

## FRONT PANEL COMPONENTS

Center Button: Capacitive touch button provides both access to the Setup and Calibration pages and toggles the panel between a "sleep" or "wake" state. This button is also user-programmable.

## SIDE PANEL CONNECTORS

- Ethernet 10/100 Port: RJ-45 port for 10/100 Mbps communication. The Ethernet port automatically negotiates the connection speed (10 Mbps or 100 Mbps), and whether to use half duplex or full duplex mode. Power is supplied through Power Over Ethernet (PoE). NXD-435 panels communicate with the NetLinX Master using the ICSP protocol over Ethernet. LEDs show communication activity, connections, speeds, and mode information:
  - L/A-link/activity - Yellow LED lights On when the Ethernet cables are connected and terminated correctly and then blinks when receiving Ethernet data packets.
  - SPD-speed - Green LED lights On when the connection speed is 100 Mbps and turns Off when the speed is 10 Mbps.
- Mini-USB Connector: 5-pin Mini-USB connector used for programming, firmware update, and touch panel file transfer between the PC and the target panel.

## MEMORY (FACTORY DEFAULT)

- 128 MB SDRAM
- 256 MB integrated Flash Memory (not upgradeable - factory programmed)

## CERTIFICATIONS

- FCC Part 15 Class B, CE, IEC 60950, RoHS

## ENVIRONMENTAL

- Operating Temperature: 0° C (32° F) to 40° C (104° F)
- Operating Humidity: 5% to 85% RH (non-condensing)
- Storage Temperature: -20° C (-4° F) to 60° C (140° F)
- Storage Humidity: 5% to 85% RH

## INCLUDED ACCESSORIES

NXD-430 Installation Guide (93-2261-02)

## RECOMMENDED ACCESSORIES

## DESCRIPTION

## PART #

## PAGE #

CB-TP5i	Rough-in/Wallbox	(FG038-11)	329
CB-TP5ib	Back Cover for the CB-TP5i Wallbox	(FG038-12)	329
NXA-BE2P-430	Portrait Bezel Kit for the NXD-430	(FG2262-10/11)	326
NXA-SMT43X	Surface Mount Box, White	(FG2262-16)	328
NXA-TTS43X	Tabletop Stand for the NXD-430/435	(FG2262-40)	331
PS-POE-AF	PoE Injector	(FG423-80)	416
CC-USB	USB Programming Cable	(FG10-5965)	339
NXA-RK5	Rack Mount Kit	(FG2904-55)	330



# NXD-435

## 4.3" Modero® Wall/Flush Mount Touch Panel

- ☐ White      NXD-435-WH    (FG2262-04)  
☒ Black      NXD-435-BL    (FG2262-03)

480 x 272  
widescreen  
Resolution



### OVERVIEW

With a screen size measuring just 4.3 inches across, the NXD-435 is the ideal solution for a wide range of applications in the home or office. Engineered for style, value, efficiency and functionality; its bright touch screen, sleek form factor, ultra-thin, two-inch mounting depth, Power over Ethernet (PoE) capability, and value-oriented price make the NXD-435 the perfect entry point to home or building automation. It also includes five capacitive-touch external buttons for executing quick functions or devices.

### COMMON APPLICATION

The NXD-435 is perfect for wall/flush mount control in a variety of cost-sensitive applications where touch panel control offers many more control/automation possibilities than a similarly priced keypad or remote: locations such as entryways, bedrooms, bathrooms, kitchens, podiums and other surface mount locations.

### FEATURES

- Compact 4.3" size
- 16x9 WQVGA color display
- Screen resolution (HV): 480 x 272 pixels
- Available in a high-gloss and textured matte combination finish in your choice of black or white
- Power over Ethernet (PoE)
- 128 MB Standard memory / 256 MB Flash memory
- 5 capacitive-touch external buttons
- Ultra-thin 2" depth for versatile installation options
- Locking tabs for quick and easy installation
- Translucent backbox
- Supports AMX Resource Management Suite®



#### HELPFUL HINT

The NXD-435 can be installed into any solid surface environment, using either solid surface screws or the included locking tabs for different mounting options.

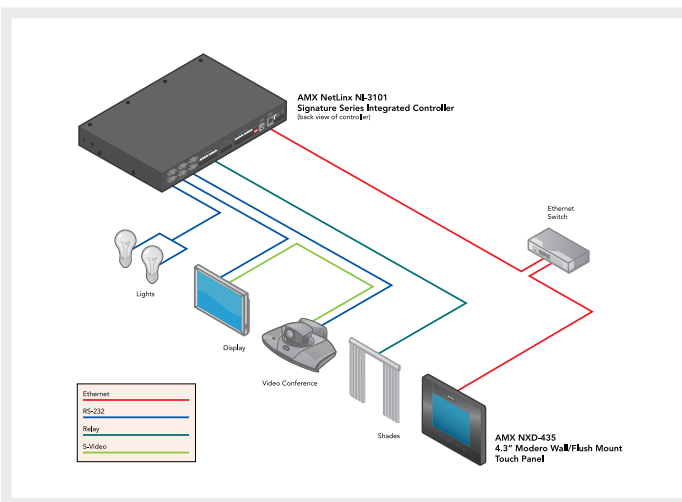
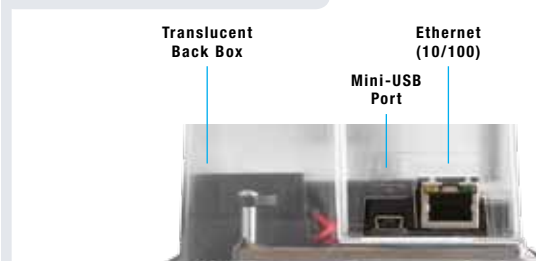


#### TRAINING AVAILABLE

For important installation, configuration and programming techniques, AMX University training is available. Just visit [www.amx.com/training](http://www.amx.com/training)



#### A CLOSER LOOK



All On      Average Usage      Sleep Mode      Estimated Usage  
**105kWh** or **13kWh** + **21kWh** = **34kWh**  
 ANNUAL ENERGY CONSUMPTION    ANNUAL ENERGY CONSUMPTION    ANNUAL ENERGY CONSUMPTION    ANNUAL ENERGY CONSUMPTION

**AMX Energy Savings**  
**67%**  
 ANNUAL ENERGY SAVINGS USING RMS & SMART PROGRAMMING



## SPECIFICATIONS

## DIMENSIONS (HWD)

- NXD-435: 4 1/8" x 5 1/2" x 2 1/8" (10.5 cm x 14 cm x 5.4 cm)
- CB-TP5i Rough-In/Wallbox (optional): 6 3/4" x 9 5/16" x 1 7/16" (171 mm x 236 mm x 36 mm)

## WEIGHT

10.4 oz (290 g)

## POWER REQUIREMENTS

- PoE Powered - No local Power Supply needed
- Max power draw: 5.5 W

## PANEL LCD PARAMETERS

- Aspect ratio: 16 x 9
- Minimum brightness (luminance): 280 cd/m2
- Channel transparency: 8-bit Alpha blending
- Contrast ratio: 250:1
- Display colors: 256 thousand colors (18-bit color depth)
- Dot/pixel pitch: 0.14 mm
- Panel type: WQVGA
- Screen resolution: 480 x 272 pixels (HV) @ 60 Hz frame frequency
- Viewing dimensions: 2 3/16" x 3 13/16" (5.5 cm x 9.6 cm)
- Active Screen Area: 2 1/8" x 3 3/4" (5.4 cm x 9.5 cm)

## VIEWING ANGLE

Left/Right /Up/Down: 80/80/60/80

## IR RECEPTION ANGLE

- Horizontal: + 25° (left and right from center)
- Vertical: + 15° (up and down from center)

## FRONT PANEL COMPONENTS

- Center Button: Capacitive touch button provides both access to the Setup and Calibration pages and toggles the panel between a "sleep" or "wake" state. This button is also user-programmable.
- Capacitive Touch Buttons: four user-programmable buttons, two on either side of the Center Button

## SIDE PANEL CONNECTORS

- Ethernet 10/100 Port: RJ-45 port for 10/100 Mbps communication. The Ethernet port automatically negotiates the connection speed (10 Mbps or 100 Mbps), and whether to use half duplex or full duplex mode. Power is supplied through Power Over Ethernet (PoE). NXD-435 panels communicate with the NetLink Master using the ICSP protocol over Ethernet. LEDs show communication activity, connections, speeds, and mode information:
  - L/A-link/activity - Yellow LED lights On when the Ethernet cables are connected and terminated correctly and then blinks when receiving Ethernet data packets.
  - SPD-speed - Green LED lights On when the connection speed is 100 Mbps and turns Off when the speed is 10 Mbps.
- Mini-USB Connector: 5-pin Mini-USB connector used for programming, firmware update, and touch panel file transfer between the PC and the target panel.

## MEMORY (FACTORY DEFAULT)

- 128 MB SDRAM
- 256 MB integrated Flash Memory (not upgradeable - factory programmed)

## CERTIFICATIONS

FCC Part 15 Class B, CE, IEC 60950, RoHS

## ENVIRONMENTAL

- Operating Temperature: 0° C (32° F) to 40° C (104° F)
- Operating Humidity: 5% to 85% RH (non-condensing)
- Storage Temperature: -20° C (-4° F) to 60° C (140° F)
- Storage Humidity: 5% to 85% RH

## INCLUDED ACCESSORIES

NXD-435 Installation Guide (93-2261-02)

## RECOMMENDED ACCESSORIES

## DESCRIPTION

## PART #

## PAGE #

CB-TP5i	Rough-in/Wallbox	(FG038-11)	329
CB-TP5ib	Back Cover for the CB-TP5i Wallbox	(FG038-12)	329
NXA-BE2P-435	Portrait Bezel Kit for the NXD-435	(FG2262-12/13)	326
NXA-SMT43X	Surface Mount Box, White	(FG2262-16)	328
NXA-TTS43X	Tabletop Stand for the NXD-430/435	(FG2262-40)	331
PS-POE-AF	PoE Injector	(FG423-80)	416
CC-USB	USB Programming Cable	(FG10-5965)	339
NXA-RK5	Rack Mount Kit	(FG2904-55)	330

# NXD-435P

## 4.3" Modero® Wall/Flush Mount Touch Panel

- ☐ White NXD-435P-WH (FG2262-15)  
☒ Black NXD-435P-BL (FG2262-14)



### OVERVIEW

The NXD-435P portrait configuration touch panel allows for Modero Touch Panel functionality in a vertical form factor, perfect for keypad replacement in a room or schedule display outside of a room. Users can quickly execute a function or command using the stylish capacitive touch buttons along the side of the Touch Panel.

### COMMON APPLICATION

The Modero 4.3" Portrait Touch Panel in a vertical form factor is perfect for searching through cover art or being used to display a schedule outside of a room. It can be used for a variety of cost-sensitive applications where touch panel control offers many more control/automation possibilities than a similarly priced keypad or remote: locations such as entryways, bedrooms, bathrooms, kitchens, podiums and other surface mount locations.

### FEATURES

- Portrait mode 4.3" display with touch
- Screen resolution (HV) 272x480 pixels
- Available in a high-gloss and textured matte combination finish in your choice of black or white
- Power over Ethernet (PoE)
- 128 MB Standard memory/256 MB Flash memory
- 5 capacitive-touch external buttons
- Ultra-thin 2" depth for versatile installation options
- Locking tabs for quick and easy installation
- Translucent backbox
- Supports AMX Resource Management Suite®



All On	Average Usage	Sleep Mode	Estimated Usage	AMX Energy Savings
105kWh ANNUAL ENERGY CONSUMPTION	or 13kWh ANNUAL ENERGY CONSUMPTION	+ 21kWh ANNUAL ENERGY CONSUMPTION	= 34kWh ANNUAL ENERGY CONSUMPTION	67% ANNUAL ENERGY SAVINGS USING RMS & SMART PROGRAMMING



### HELPFUL HINT

Special Residential Portrait Pricing is 20% less than the Landscape Touch Panels. The NXD 4.3" Touch Panels allow for Modero Touch Panel functionality in a vertical form factor, perfect for keypad replacement in a room or schedule display outside of a room, all at a very aggressive introductory price.

272 x 480  
portrait  
Resolution



### TRAINING AVAILABLE

For important installation, configuration and programming techniques, AMX University training is available. Just visit [www.amx.com/training](http://www.amx.com/training)



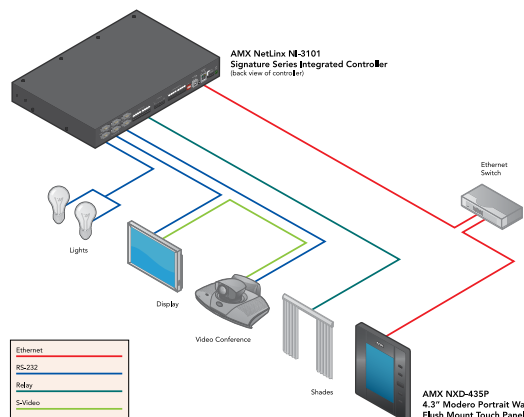
### AWARD WINNER

2010 Nomination For Editor's Choice Top Product Picks  
Based on a number of criteria, including life-cycle, maintenance, environmental footprint and aesthetics, to name a few, Interiors & Sources Editors hand-selected these products from among the hundreds of submissions received and feature them in a special issue.



### A CLOSER LOOK

Translucent Back Box  
Ethernet (10/100)  
Mini-USB Port



## SPECIFICATIONS

## DIMENSIONS (HWD)

5 1/2" x 4 1/8" x 2 1/8" (14 cm x 10.5 cm x 5.4 cm)

## WEIGHT

10.4 oz (290 g)

## POWER REQUIREMENTS

- PoE Powered - No local Power Supply needed
- Max power draw: 5.5W

## MEMORY (FACTORY DEFAULT)

- 128 MB SDRAM
- 256 MB integrated Flash Memory (not upgradeable - factory programmed)

## CERTIFICATIONS

FCC Part 15 Class B, CE, IEC 60950, RoHS

## PANEL LCD PARAMETERS

- Aspect ratio: 9 x 16
- Minimum brightness (luminance): 280 cd/m<sup>2</sup>
- Channel transparency: 8-bit Alpha blending
- Contrast ratio: 250:1
- Display colors: 256 thousand colors (18-bit color depth)
- Dot/pixel pitch: 0.14 mm
- Panel type: WQVGA
- Screen resolution: 272 x 480 pixels (HV) @ 60 Hz frame frequency
- Viewing dimensions: 3 13/16" x 2 3/16" (9.6 cm x 5.5 cm)
- Active Screen Area: 3 3/4" x 2 1/8" (9.5 cm x 5.4 cm)

## VIEWING ANGLE

Left/Right /Up/Down: 60/80/80/80

## FRONT PANEL COMPONENTS

- Center Button: Capacitive touch button provides both access to the Setup and Calibration pages and toggles the panel between a "sleep" or "wake" state. This button is also userprogrammable.
- Capacitive Touch Buttons: four user-programmable buttons, two each above and below the Center Button.

## SIDE PANEL CONNECTORS

- Ethernet 10/100 Port: RJ-45 port for 10/100 Mbps communication. The Ethernet port automatically negotiates the connection speed (10 Mbps or 100 Mbps), and whether to use half duplex or full duplex mode. Power is supplied through Power Over Ethernet (PoE). NXD-435P panels communicate with the NetLink Master using the ICSP protocol over Ethernet. LEDs show communication activity, connections, speeds, and mode information:
  - L/A-link/activity - Yellow LED lights On when the Ethernet cables are connected and terminated correctly and then blinks when receiving Ethernet data packets.
  - SPD-speed - Green LED lights On when the connection speed is 100 Mbps and turns Off when the speed is 10 Mbps.
- Mini-USB Connector: 5-pin Mini-USB connector used for programming, firmware update, and touch panel file transfer between the PC and the target panel.

## ENVIRONMENTAL

- Operating Temperature: 0° C (32° F) to 40° C (104° F)
- Operating Humidity: 5% to 85% relative humidity (non-condensing)
- Storage Temperature: -20° C (-4° F) to 60° C (140° F)
- Storage Humidity: 5% to 85% RH

## INCLUDED ACCESSORIES

NXD-435P Installation Guide (93-2262-14)

## RECOMMENDED ACCESSORIES

## DESCRIPTION

## PART #

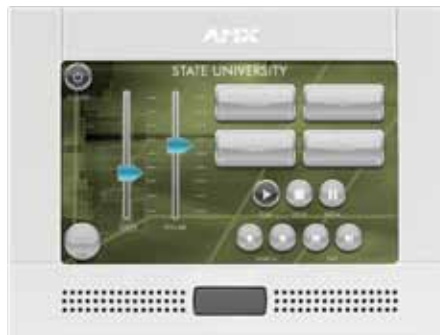
## PAGE #

CB-TP5i	Rough-In/Wallbox	(FG038-11)	329
CB-TP5ib	Back Cover for the CB-TP5I Wallbox	(FG038-12)	329
PS-POE-AF	PoE Injector	(FG423-80)	416
CC-USB	USB Programming Cable	(FG10-5965)	339
NXA-RK5	Rack Mount Kit	(FG2904-55)	330

# NXD-500i

## 5" Modero® Wall/Flush Mount Touch Panel with Intercom

- ☐ White Mystique-Style Bezel (FG2261-08)
- ☒ Black Mystique-Style Bezel (FG2261-07)
- ☐ Silver Bezel (FG2261-02)



800 x 480  
widescreen  
Resolution



### OVERVIEW

The small yet mighty NXD-500i is the latest touch panel to join the intercom enabled family. The NXD-500i is a 5" touch panel that is ultra-thin and compact. It measures only 2 inches deep, making it perfect for buildings with shallower architecture and where space is at a premium. The NXD-500i can be powered over Ethernet and utilizes locking tabs for quick and easy installation.

### COMMON APPLICATION

At just 5 inches in size, the NXD-500i is perfect for wall/flush mount control and intercom usage in a variety of locations such as entryways, bedrooms, bathrooms, kitchens, podiums and other surface mount locations.

### FEATURES

- 16 x 9 widescreen high resolution color display
- Playback of MP3 and WAV audio files
- 5" active-matrix display
- Screen Resolution (HV): 800 x 480 pixels
- Display colors: 256 K (18-bit color depth)
- Built-in Speakers (2) and microphone
- Motion Sensor
- Light Sensor
- 128 MB SDRAM / 256 MB Flash memory
- Full duplex VoIP Intercom and SIP Telephone (requires AMX Gateway) Ready
- PoE Power
- Dynamic image support
- Translucent back box
- Locking tabs for increased mounting options



#### HELPFUL HINT

**Lock It Up.** The NXD-500i can be installed either directly into the (optional) CB-TP5I Conduit Box or another solid surface environment, using either solid surface screws or the included locking tabs for different mounting options.



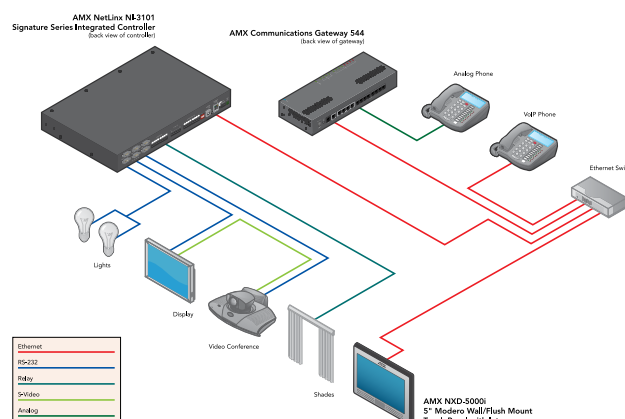
#### TRAINING AVAILABLE

For important installation, configuration and programming techniques, AMX University training is available. Just visit [www.amx.com/training](http://www.amx.com/training)



#### A CLOSER LOOK

Translucent Back Box  
Ethernet (10/100)  
Mini-USB Port



All On **105kWh** or Average Usage **13kWh** + Sleep Mode **21kWh** = Estimated Usage **34kWh**  
ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION

**67%**  
ANNUAL ENERGY SAVINGS USING RMS & SMART PROGRAMMING

## SPECIFICATIONS

## DIMENSIONS (HWD)

(With faceplate): 4 1/8" x 5 9/16" x 2" (10.50 cm x 14.20 cm x 5 cm)

## WEIGHT

12.8 oz (360 grams)

## POWER REQUIREMENTS

- PoE Powered - No local Power Supply needed
- Max power draw: 5.5W

## PANEL LCD PARAMETERS

- Aspect ratio: 16 x 9
- Maximum brightness (luminance): 200 cd/m2
- Channel transparency: 8-bit Alpha blending
- Contrast ratio: 250:1
- Display colors: 256 K (18-bit color depth)
- Dot/pixel pitch: 0.14 mm
- Panel type: TFT Color Active-Matrix
- Screen resolution: 800 x 480 pixels (HV) @ 60 Hz frame frequency
- Viewing dimensions: 4.3" x 2.58" (109.2 mm x 65.2 mm)

## VIEWING ANGLE

Up/Down/Left/Right: 85/85/85/85

## IR RECEPTION ANGLE

- Horizontal: + 25° (left and right from center)
- Vertical: + 15° (up and down from center)

## FRONT PANEL COMPONENTS

- Light Sensor: Photosensitive light detector for automatic adjustment of the panel brightness
- Motion Sensor (PIR): Proximity Infrared Detector to wake the panel when panel is approached.
- Front Bezel Button: Provides both access to the Setup and Calibration pages and toggles the panel between a "sleep" or "wake" state. This button is also user-programmable.
- Microphone: Frequency response of 300 to 3400Hz; used for intercom applications.
- Speaker: Output of 40hm, 2 Watts, with a 300Hz low cutoff frequency.

## SUPPORTED AUDIO SAMPLE RATES

48000Hz, 44100Hz, 32000Hz, 24000Hz, 22050Hz, 16000Hz, 12000Hz, 11025Hz, and 8000Hz

## INTERCOM

Full duplex VoIP capabilities

## SIDE PANEL CONNECTORS

- Ethernet 10/100 Port: RJ-45 port for 10/100 Mbps communication. The Ethernet port automatically negotiates the connection speed (10 Mbps or 100 Mbps), and whether to use half duplex or full duplex mode. Power is supplied through Power Over Ethernet (PoE). NXD-500i panels communicate with the NetLinx Master using the ICSP protocol over Ethernet. LEDs show communication activity, connections, speeds, and mode information:
  - L/A-link/activity - Yellow LED lights On when the Ethernet cables are connected and terminated correctly and then blinks when receiving Ethernet data packets.
  - SPD-speed - Green LED lights On when the connection speed is 100 Mbps and turns Off when the speed is 10 Mbps.
- Mini-USB Connector: 5-pin Mini-USB connector used for programming, firmware update, and touch panel file transfer between the PC and the target panel. The connector is also used for providing audio output for external speakers.

## MEMORY (FACTORY DEFAULT)

- 128 MB SDRAM
- 256 MB integrated Flash Memory (not upgradeable - factory programmed)

## CERTIFICATIONS

- FCC Part 15 Class B
- CE
- IEC 60950
- RoHS

## ENVIRONMENTAL

- Operating Temperature: 0° C (32° F) to 40° C (104° F)
- Operating Humidity: 20% to 85% RH
- Storage Temperature: -20° C (-4° F) to 60° C (140° F)
- Storage Humidity: 5% to 85% RH

## INCLUDED ACCESSORIES

- NXD-500i Installation Guide (93-2261-02)
- Front Bezel (60-2261-11)

## RECOMMENDED ACCESSORIES

## DESCRIPTION

## PART #

## PAGE #

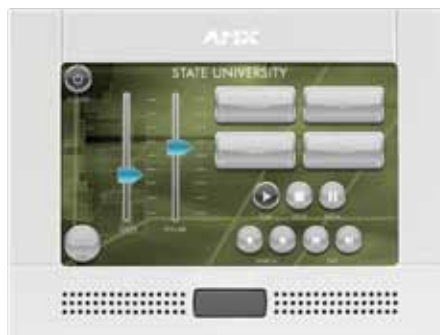
NXA-BEZ500	Mystique Style Bezel Kit for the NXD-500i	(FG2261-48)	327
CB-TP5i	Rough-In/Wallbox for NXD-500i	(FG038-11)	329
CB-TP5ib	Back Cover for the CB-TP5i Wallbox	(FG038-12)	329
NXA-BEZP-500	Portrait Bezel Kit for NXD-500i	(FG2261-10/11)	327
PS-POE-AF	PoE Injector	(FG423-80)	416
CC-USB	USB Programming Cable	(FG10-5965)	339
NXA-RK5	Rack Mount Kit	(FG2904-55)	330
CC-HPADAPTER	Headphone Adapter Cable	(FG5966-23)	339

# NXD-500iW

## 5" Modero® Water Resistant Indoor Wall Mount Touch Panel

- White Mystique-Style Bezel (FG2261-012)
- Black Mystique-Style Bezel (FG2261-09)

800 x 480  
widescreen  
Resolution



### OVERVIEW

The small yet mighty NXD-500iW is the latest touch panel to join the intercom enabled family and features indoor water resistance (Certified to IP51). It was especially designed for high humidity INDOOR areas and is ultra-thin and compact. It measures only 2 inches deep, making it perfect for buildings with shallower architecture and where space is at a premium. The NXD-500iW can be powered over Ethernet and utilizes locking tabs for quick and easy installation.

### COMMON APPLICATION

At just 5 inches in size, the NXD-500iW is perfect for wall mount control and intercom usage in a variety of high humidity INDOOR locations such as bathrooms, kitchens, indoor pool areas, pool cabanas and other indoor, high-humidity, surface mount locations.

### FEATURES

- Certified to IP51 for water resistance – Designed for INDOOR use only
- Available in Mystique Black (NXD-500iW-MB) and Mystique White (NXD-500iW-MW)
- Complete touch panel, not an add-on bezel solution
- 16 x 9 widescreen high resolution color display
- Playback of MP3 and WAV audio files
- 5" active-matrix display
- Screen Resolution (HV): 800 x 480 pixels
- Display colors: 256 K (18-bit color depth)
- Built-in Speakers (2) and microphone
- Motion Sensor
- Light Sensor
- 128 MB SDRAM / 256 MB Flash memory
- Full duplex VoIP Intercom and SIP Telephone (requires AMX Gateway) Ready
- PoE Power
- Dynamic image support
- Translucent back box
- Locking tabs for increased mounting options



All On **105kWh** or **13kWh** + **21kWh** = **34kWh**  
ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION ANNUAL ENERGY CONSUMPTION

AMX Energy Savings  
**67%**  
ANNUAL ENERGY SAVINGS USING RMS & SMART PROGRAMMING



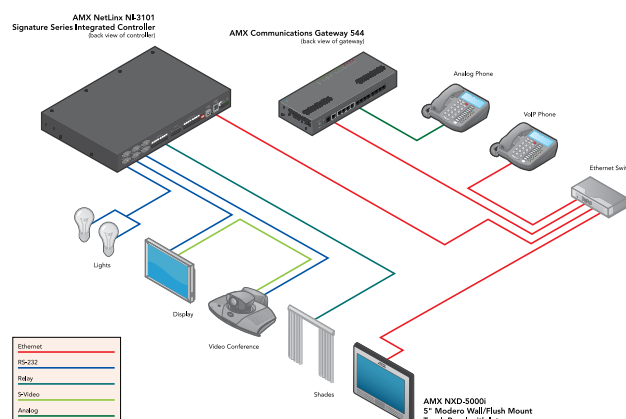
### HELPFUL HINT

**Lock It Up.** The NXD-500i can be installed either directly into the (optional) CB-TP51 Conduit Box or another solid surface environment, using either solid surface screws or the included locking tabs for different mounting options.



### A CLOSER LOOK

Translucent Back Box Ethernet (10/100) Mini-USB Port



## SPECIFICATIONS

## DIMENSIONS (HWD)

(With faceplate): 4 1/8" x 5 9/16" x 2" (10.50 cm x 14.20 cm x 5 cm)

## WEIGHT

12.8 oz (360 grams)

## POWER REQUIREMENTS

- PoE Powered - No local Power Supply needed
- Max power draw: 5.5 W

## PANEL LCD PARAMETERS

- Aspect ratio: 16 x 9
- Maximum brightness (luminance): 200 cd/m2
- Channel transparency: 8-bit Alpha blending
- Contrast ratio: 250:1
- Display colors: 256 K (18-bit color depth)
- Dot/pixel pitch: 0.14 mm
- Panel type: TFT Color Active-Matrix
- Screen resolution: 800 x 480 pixels (HV) @ 60 Hz frame frequency
- Viewing dimensions: 4.3" x 2.58" (109.2 mm x 65.2 mm)

## VIEWING ANGLE

Up/Down/Left/Right: 85/85/85/85

## IR RECEPTION ANGLE

- Horizontal: + 25° (left and right from center)
- Vertical: + 15° (up and down from center)

## FRONT PANEL COMPONENTS

- Light Sensor: Photosensitive light detector for automatic adjustment of the panel brightness
- Motion Sensor (PIR): Proximity Infrared Detector to wake the panel when panel is approached.
- Front Bezel Button: Provides both access to the Setup and Calibration pages and toggles the panel between a "sleep" or "wake" state. This button is also user-programmable.
- Microphone: Frequency response of 300 to 3400Hz; used for intercom applications.
- Speaker: Output of 40hm, 2 Watts, with a 300Hz low cutoff frequency.

## SUPPORTED AUDIO SAMPLE RATES

48000Hz, 44100Hz, 32000Hz, 24000Hz, 22050Hz, 16000Hz, 12000Hz, 11025Hz, and 8000Hz

## INTERCOM

Full duplex VoIP capabilities

## SIDE PANEL CONNECTORS

- Ethernet 10/100 Port: RJ-45 port for 10/100 Mbps communication. The Ethernet port automatically negotiates the connection speed (10 Mbps or 100 Mbps), and whether to use half duplex or full duplex mode. Power is supplied through Power Over Internet (PoE). NXD-500iW panels communicate with the NetLinx Master using the ICSP protocol over Ethernet. LEDs show communication activity, connections, speeds, and mode information:
  - L/A-link/activity - Yellow LED lights On when the Ethernet cables are connected and terminated correctly and then blinks when receiving Ethernet data packets.
  - SPD-speed - Green LED lights On when the connection speed is 100 Mbps and turns Off when the speed is 10 Mbps.
- Mini-USB Connector: 5-pin Mini-USB connector used for programming, firmware update, and touch panel file transfer between the PC and the target panel. The connector is also used for providing audio output for external speakers.

## MEMORY (FACTORY DEFAULT)

- 128 MB SDRAM
- 256 MB integrated Flash Memory (not upgradeable - factory programmed)

## CERTIFICATIONS

- FCC Part 15 Class B
- CE
- IEC 60950
- RoHS

## ENVIRONMENTAL

- Operating Temperature: 0° C (32° F) to 40° C (104° F)
- Operating Humidity: 5° - 95° relative humidity (non-condensing)
- Storage Temperature: -20° C (-4° F) to 60° C (140° F)
- Storage Humidity: 5% to 85% RH

## INCLUDED ACCESSORIES

- NXD-500iW Installation Guide
- Front Bezel (60-2261-11)

## RECOMMENDED ACCESSORIES

## DESCRIPTION

## PART #

## PAGE #

CB-TP5i	Rough-In/Wallbox for NXD-500i	(FG038-11)	329
CB-TP5ib	Back Cover for the CB-TP5i Wallbox	(FG038-12)	329
PS-POE-AF	PoE Injector	(FG423-80)	416
CC-USB	USB Programming Cable	(FG10-5965)	339
NXA-RK5	Rack Mount Kit	(FG2904-55)	330
CC-HPADAPTER	Headphone Adapter Cable	(FG5966-23)	339



# NXD-700i

## 7" Modero® Wall/Flush Mount Touch Panel with Intercom

- ☐ White Mystique-Style Bezel (FG2258-12)
- ☒ Black Mystique-Style Bezel (FG2258-11)
- ☐ Silver Bezel (FG2258-10)



### OVERVIEW

The NXD-700i is an incredibly versatile user interface, combining a sleek, compact size, Wall/Flush Mount flexibility and the ability to create a high quality digital home/office intercom network or to make/receive digital local, long distance and international telephone calls. Simply add the AMX Communications Gateway (FG2182-0x) for calls that sound incredibly clear.

### COMMON APPLICATION

At just 7 inches in size, the NXD-700i is perfect for wall/flush mount control of a variety of devices in bedrooms, bathrooms, kitchens, podiums and other surface mount locations.

### FEATURES

- 7" active-matrix TFT with 16:9 Aspect Ratio
- Screen Resolution (HV): 800 x 480 pixels with Anti-glare Overlay
- Display colors: 256 K (18 bit color depth)
- Full duplex VoIP Intercom and SIP Telephone (requires AMX Gateway) Ready
- Built-in speaker and microphone
- G.711 telephone-voice-quality sound (70 dB SPL @ 1 meter)
- Supports analog stereo audio
- 128 MB SDRAM / 256 MB CompactFlash Memory or more
- Available in three bezel colors including silver bezel with tactile buttons, or Mystique-Style Bezels in black and white
- Motion Sensor and Light sensor



All On	Average Usage	Sleep Mode	Estimated Usage	AMX Energy Savings
116kWh	or 14kWh	+ 19kWh	= 33kWh	71%
ANNUAL ENERGY CONSUMPTION	ANNUAL ENERGY CONSUMPTION	ANNUAL ENERGY CONSUMPTION	ANNUAL ENERGY CONSUMPTION	ANNUAL ENERGY SAVINGS USING RMS & SMART PROGRAMMING



### HELPFUL HINT

In addition to all of the capabilities of a full-digital intercom network, the NXD-700i features one-way monitoring, which gives users the ability to activate the microphone of an intercom-enabled touch panel in the network. This is ideal for nurseries, playrooms or areas with audio surveillance.

800 x 480  
widescreen  
Resolution



### TRAINING AVAILABLE

For important installation, configuration and programming techniques, AMX University training is available. Just visit [www.amx.com/training](http://www.amx.com/training)

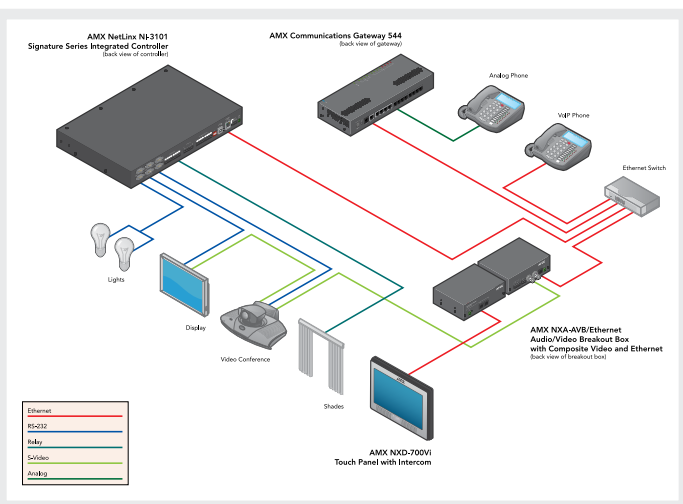
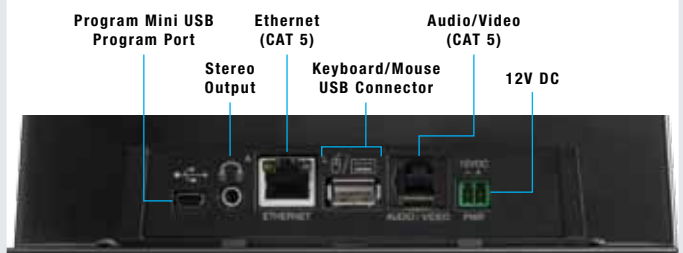


### COUNTRY OF ORIGIN: MEXICO

To satisfy the requirements/regulations of existing or future government programs, this two-letter code is being provided to designate the country of origin for this product.



### A CLOSER LOOK



## SPECIFICATIONS

## DIMENSIONS (HWD)

- NXD-700i (with faceplate): 5.93" x 7.87" x 3.28"  
(15.06 cm x 20.00 cm x 8.33 cm)
- CB-TP7 Rough-In/Wallbox (optional): 5.47" x 7.23" x 3.40"  
(13.90 cm x 18.40 cm x 8.64 cm)

## WEIGHT

1 lb (0.45 kg)

## PANEL LCD PARAMETERS

- Aspect Ratio: 16:9
- Brightness: 300 cd/m2
- Contrast ratio: 400:1
- Display colors: 256K (18-bit color depth)
- Dot/pixel pitch: 0.19 mm
- Panel type: TFT Color Active-Matrix
- Screen Resolution: 800 x 480 pixels (HV) @ 60 Hz frame frequency

## ACTIVE SCREEN AREA

6.00" x 3.60" (15.24 cm x 9.14 cm)

## VIEWING ANGLE

Up/Down/Left/Right: 70/60/70/70

## IR RECEPTION ANGLE

- Horizontal:  $\pm 50^\circ$  (left and right from center)
- Vertical:  $\pm 30^\circ$  (up and down from center)

## SUPPORTED AUDIO SAMPLE RATES

48000Hz, 44100Hz, 32000Hz, 24000Hz, 22050Hz, 16000Hz, 12000Hz, 11025Hz, and 8000Hz

## INTERCOM

Full duplex VoIP capabilities

## VIDEO CAPABILITIES

Supports DynaMo™ (M-JPEG), including DynaMo Resource (enhanced M-JPEG) Images. Refer to the TPDesign4 online help and NXD-700i Operation/Reference Guide for details on configuring DynaMo and DynaMo Resource Images.

## FRONT PANEL COMPONENTS

- Light Sensor: Photosensitive light detector for automatic adjustment of the panel brightness
- Motion Sensor (PIR): Proximity Infrared Detector to wake the panel when panel is approached
- Front Bezel Button: Provides both access to the setup and calibration pages and toggles the panel between "sleep" or "wake" state. This button is also user-programmable.
- Microphone: Frequency response of 300 to 3400Hz; used for intercom applications.
- Speaker: Output of 40hm, 2 Watt, with a 300Hz low cutoff frequency

## SIDE PANEL CONNECTORS

- Ethernet 10/100 Port: RJ-45 port for 10/100 Mbps communication. The Ethernet port automatically negotiates the connection speed (10 Mbps or 100 Mbps), and whether to use half duplex or full duplex mode. Power is supplied through Power Over Ethernet (PoE). NXD-700i panels communicate with the NetLink Master using the ICSP protocol over Ethernet. LEDs show communication activity, connections, speeds, and mode information:
  - L/A- link /activity - Yellow LED lights On when Ethernet cables are connected and terminated correctly and then blinks when receiving Ethernet data packets.
  - SPD-speed - Green LED lights On when the connection is 100 Mbps and turns off when the speed is 10 Mbps.
- Mini-USB Connector: 5-pin Mini-USB connector used for programming, firmware update, and touch panel file transfer between the PC and the target panel. The connector is also used for providing audio output for external speakers.

## POWER REQUIREMENT

- PoE Powered - No local power supply needed
- Max power draw: 5.5W

## CERTIFICATIONS

- FCC Part 15 Class B and CE
- IEC 60950
- RoHS

## MEMORY

- 128 MB SDRAM
- 256 MB integrated Flash Memory (not upgradeable - factory programmed)

## ENVIRONMENTAL

- Operating Temperature: 0° C (32° F) to 40° C (104° F)
- Operating Humidity: 20% to 85% RH
- Storage Temperature: -20° C (-4° F) to 60° C (140° F)
- Storage Humidity: 5% to 85% RH

## INCLUDED ACCESSORIES

- Installation Kit for NXD-700i panels (KA2258-02):
- 4 Phillips-head screws (#4-40 x 0.250 Black) (80-0112)
- 3 Drywall clips (62-5924-05)
- 3 #6 sheet metal screws (80-0192)
- Trim Ring with button openings (60-2258-26), for use with silver bezel including tactile buttons
- Trim Ring without button openings (60-2258-25), for use with black and white bezels (Mystique-Style Bezels do not include tactile buttons)

## RECOMMENDED ACCESSORIES

## DESCRIPTION

## PART #

## PAGE #

PS-POE-AF	PoE Injector	(FG423-80)	416
NXA-ENET8-2POE	Gigabit Ethernet Switch	(FG2178-63)	444
NXA-RK7	Rack Mount Kit	(FG2904-53)	330
CB-TP7	Rough-In Box for 7" Wall/Flush Mount Modero Touch Panels	(FG035-10)	329
CC-USB	USB Programming Cable	(FG10-5965)	339
CSG	Communications Gateway	(FG2182-01,-02,-03)	430

# NXT-CA7

## 7" Modero® Tabletop Touch Panel

(FG2258-09)

800 x 480  
widescreen  
Resolution



### OVERVIEW

The NXT-CA7 is an incredibly versatile user interface, combining a sleek, compact size, and tabletop flexibility. In places where space is critical, the 7" Modero integrates a small base and an expansive 16x9 aspect ratio for maximum visibility and one-touch control options.

### COMMON APPLICATION

For hotel registration desks, classrooms, building control rooms, office credenzas and other tabletop locations that require an elegant user interface with powerful control features.

### FEATURES

- 7" active-matrix display with 16:9 aspect ratio
- Screen Resolution (HW): 800 x 480 pixels
- Display colors: 262K (18-bit color depth)
- Anti-glare Overlay
- Supports analog stereo audio
- Playback of MP3 and WAV audio files
- Built-in Speaker and microphone
- Motion Sensor (PIR) and Light Sensor
- 128 MB SDRAM / 256 MB CompactFlash Memory or more
- Wired 10/100 Ethernet



### TRAINING AVAILABLE

For important installation, configuration and programming techniques, AMX University training is available. Just visit [www.amx.com/training](http://www.amx.com/training)



### REVIT BIM

This product is part of the Autodesk Revit database and can be specified in designs for Building Information Modeling (BIM). Download the associated Revit .rfa file from the Autodesk SEEK Web site. It is also searchable under 'AMX' in any Autodesk application.



### COUNTRY OF ORIGIN: MEXICO

To satisfy the requirements/regulations of existing or future government programs, this two-letter code is being provided to designate the country of origin for this product.

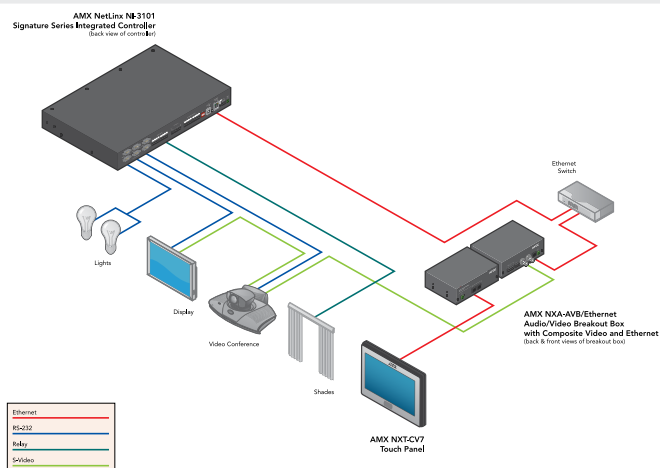


All On	Average Usage	Sleep Mode	Estimated Usage	AMX Energy Savings
105kWh ANNUAL ENERGY CONSUMPTION	or 13kWh ANNUAL ENERGY CONSUMPTION	+ 16kWh ANNUAL ENERGY CONSUMPTION	= 30kWh ANNUAL ENERGY CONSUMPTION	72% ANNUAL ENERGY SAVINGS USING RMS & SMART PROGRAMMING



### QUICK TIP

The NXT-CV7 comes ready to support the exclusive AMX G4 ComputerControl application (F6070-602), which delivers remote access and control of any networked computer directly to the NXT-CV7. Launch digital music. Cruise the Internet. Check and respond to email - all at the touch of a button.



## SPECIFICATIONS

## DIMENSIONS (HWD)

- Fully raised: 6.86" x 7.96" x 6.93" (17.40 cm x 20.20 cm x 17.60 cm)
- Fully lowered height: 3.70" (9.40 cm)

## WEIGHT

2.5 lb (1.12 kg)

## POWER REQUIREMENTS

- PoE Powered - No local Power Supply needed
- Max power draw: 5.5W

## MEMORY

- 128 MB SDRAM
- 256 MB integrated Flash Memory (not upgradeable - factory programmed)

## PANEL LCD PARAMETERS

- Aspect Ratio: 16:9
- Brightness: 300 cd/m2
- Contrast ratio: 400:1
- Display colors: 256K colors (18-bit color depth)
- Dot/pixel pitch: 0.19 mm
- Panel type: TFT Color Active-Matrix
- Screen Resolution: 800 x 480 pixels (HV) @ 60 Hz frame frequency

## ACTIVE SCREEN AREA

6.00" x 3.60" (15.24 cm x 9.14 cm)

## VIEWING ANGLE

Up/Down/Left/Right: 70/60/70/70

## IR RECEPTION ANGLE

- Horizontal:  $\pm 50^\circ$  (left and right from center)
- Vertical:  $\pm 30^\circ$  (up and down from center)

## SUPPORTED AUDIO SAMPLE RATES

48000Hz, 44100Hz, 32000Hz, 24000Hz, 22050Hz, 16000Hz, 12000Hz, 11025Hz, and 8000Hz

## FRONT PANEL COMPONENTS

- Light Sensor: Photosensitive light detector for automatic adjustment of the panel brightness
- Motion Sensor (PIR): Proximity Infrared Detector to wake the panel when panel is approached
- Front Bezel Button: Provides both access to the Setup and Calibration pages and toggles the panel between a "sleep" or "wake" state. This button is also userprogrammable.
- Speaker: Output of 4 Ohm, 2 Watts, and 300Hz low cutoff frequency

## REAR CONNECTORS

- Ethernet 10/100 Port: RJ-45 port for 10/100 Mbps communication. The Ethernet port automatically negotiates the connection speed (10 Mbps or 100 Mbps), and whether to use half duplex or full duplex mode. Power is supplied through Power Over Ethernet (PoE). CA7 panels communicate with the NetLinX Master using the ICSP protocol over Ethernet. LEDs show communication activity, connections, speeds, and mode information:
  - L/A- link /activity - Yellow LED lights On when Ethernet cables are connected and terminated correctly and then blinks when receiving Ethernet data packets.
  - SPD-speed - Green LED lights On when the connection is 100 Mbps and turns off when the speed is 10 Mbps.
- Mini-USB Connector: 5-pin Mini-USB connector used for programming, firmware update, and touch panel file transfer between the PC and the target panel. The connector is also used for providing audio output for external speakers.

## CERTIFICATIONS

- FCC Part 15 Class B and CE
- IEC 60950
- RoHS

## ENVIRONMENTAL

- Temperature Operating: 0° C (32° F) to 40° C (104° F)
- Operating Humidity: 20% to 85% RH
- Temperature Storage : -20° C (-4° F) to 60° C (140° F)
- Storage Humidity: 5% to 85% RH

## OTHER AMX EQUIPMENT

- PS-POE-AF PoE Injector (FG423-80)
- CC-USB Type-A to Mini-B5-wire programming cable (FG10-5965)
- USB to Headphone Adaptor (FG5966-23)
- NXA-ENET8-2POE, Gigabit PoE Ethernet Switch (FG2178-63)

## RECOMMENDED ACCESSORIES

## DESCRIPTION

## PART #

## PAGE #

PS-POE-AF

PoE Injector

(FG423-80)

416

NXA-ENET8-2POE

Gigabit Ethernet Switch

(FG2178-63)

444

CC-USB

USB Programming Cable

(FG10-5965)

339

CC-HPADAPTER

Headphone Adapter Cable

(FG5966-23)

339

# NXV-300

## Modero® Virtual Touch Panel

(FG2263-01)



### OVERVIEW

The Modero NXV-300 is an ideal solution when you need the intelligence and ease of use that only a touch panel can offer but from remote locations - the back of the room, across the campus or anywhere over the Internet.

This small rack-mountable device (similar in size to an NI-700 NetLinX Controller) allows users to access their system via any PC or Mac via Virtual Network Connection (VNC). Users simply navigate to the device using a browser (Internet Explorer, Firefox and Safari for PCs and Firefox and Safari for Macs) and login with a username/password.

Except for viewing the device in a browser window and interacting with a mouse, everything looks and works exactly the same as using any Modero Touch Panel. And the NXV-300 is easily configured for viewing. It is viewable in two resolutions, 800x480 and 480x272, which allows the use of many existing touch panel page files.

### COMMON APPLICATION

Ideal for simplified room control, convenient back-up in case a touch panel is inaccessible, cost-effective secondary control, or enhanced help desk support.



#### TRAINING AVAILABLE

For important installation, configuration and programming techniques, AMX University training is available. Just visit [www.amx.com/training](http://www.amx.com/training)



#### D-TOOLS CERTIFIED PRODUCT

This product can be found in the D-Tools manufacturer product database and specified as a third party device when building and proposing a system using D-Tools System Integrator software.



#### REVIT BIM

This product is part of the Autodesk Revit database and can be specified in designs for Building Information Modeling (BIM). Download the associated Revit .rfa file from the Autodesk SEEK Web site. It is also searchable under 'AMX' in any Autodesk application.



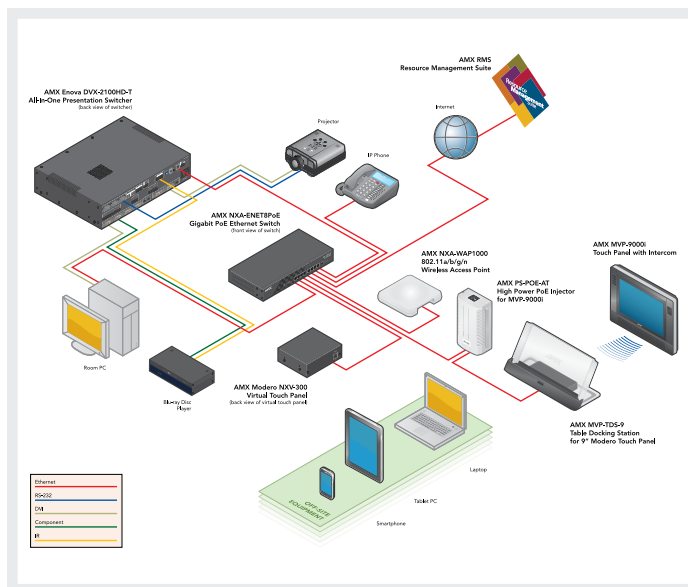
#### COUNTRY OF ORIGIN: MEXICO

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#### G4 TECHNOLOGY

This product features AMX's exclusive, powerful G4 graphics engine - the driving force behind the advanced graphics and image processing capability on a variety of AMX Touch Panels and other devices.



SPECIFICATIONS

DIMENSIONS (HWD)

1 5/8" x 5 1/2" x 4" (4.13 cm x 13.97 cm x 10.32 cm)

WEIGHT

1.40 lbs (.64 kg)

POWER REQUIREMENTS

- PoE powered – no local Power Supply needed
- IEEE 802.3af Compliant

MEMORY

- 64 Mbytes of RAM
- 256 Mbytes of FLASH

FRONT PANEL COMPONENTS

- Power LED (green): Lights to indicate that the unit has powered up
- Any state other than on indicates the unit is either not powered, or has not completed boot up
- Status LED (green): Lights to show the status of the connection between the NXV-300 and the Master
- User Connected LED (red): Lights to indicate a user remotely accessing the device
- Maximum User LED (yellow): Lights to indicate that the device has the maximum number of users (3) connected to it
- Reset Button: Holding reset button for 5 seconds will access the Setup pages. Holding reset button for 30 seconds will reset the device to factory defaults

REAR PANEL COMPONENTS

- Ethernet Port - 10/100 Ethernet with PoE. LEDs show communication activity, connection status, speeds, and mode information:
  - SPD (speed) - Yellow LED lights On when the connection speed is 100 Mbps and turns Off when the speed is 10 Mbps
  - L/A (link/activity) - Green LED lights On when the Ethernet cables are connected and terminated correctly, and blinks when receiving Ethernet data packets

ENVIRONMENTAL

- Operating Temperature: 32° F to 104° F (0° C to 40° C)
- Operating Humidity: 5% - 85% non-condensing
- Intended for indoor use only

CERTIFICATIONS

FCC Class B, CE, IEC 60950, RoHS

RECOMMENDED ACCESSORIES

DESCRIPTION

PART #

PAGE #

PS-POE-AF

Power over Ethernet Injector

(FG423-80)

416



# NXV-CPI

## Control Phone Interface

(FG2263-03)



### OVERVIEW

The NXV-CPI is the ideal solution for organizations that have already invested in Cisco® IP Phones that would like to add basic control to a room. The NXV-CPI allows Cisco Phone users to minimize their investment in new infrastructure by transforming Cisco Phones into Modero® Virtual Touch Panels. Using the phone's built-in touch screen, users can access and control lights, shades and other AV equipment in the room. Dealers can use the NXV-CPI as a cost-effective entry point to control. As control requirements grow, users can easily upgrade to an AMX Touch Panel. Setting up the system is easy. Simply browse to NXV-CPI's Web page, label the buttons and add the related NetLinx® control commands. NXV-CPI is compatible with Cisco models 7965G and 7975G.

### COMMON APPLICATION

The NXV-CPI is ideal for entry level conference rooms who have already invested in Cisco IP phones that want to integrate AMX control into the room.

### FEATURES

- **Transform Cisco IP Phones into Modero Virtual Touch Panels** – Gain access and control of the AMX system using the phone's built-in touch screen
- **Cost-Effective Control from an IP Phone** – Control lights, shades and AV equipment right from two fully integrated phones.
- **Control any Room 4 Ways** – Touch the screen, push the hard buttons, use the soft keys, or the numeric keypad.
- **Power over Ethernet** – Reduces installation costs and removes the need for a local power supply

### DEALER BENEFITS

- **Low Cost Conference Room Solution** – Offer an entry level conference room solution with the opportunity to pull through additional equipment
- **Easy to Install and Setup** – Simply browse to the NXV-CPI's web page, label the button and add NetLinx control commands

### CUSTOMER BENEFITS

- **Leverage Existing infrastructure** – Expand the capabilities of existing Cisco IP Phones to include control
- **Cost Effective Room Control** – Add capabilities to control lights, shades and other AV equipment in smaller rooms from a Cisco IP phone



#### TRAINING AVAILABLE

For important installation, configuration and programming techniques, AMX University training is available. Just visit [www.amx.com/training](http://www.amx.com/training)



#### REVIT BIM

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SPECIFICATIONS

DIMENSIONS (HWD)

- With feet: 1 11/16" x 5 9/16" x 4 1/8" (4.2 cm x 14.1 cm x 10.4 cm)
- Without feet: 1 1/2" x 5 9/16" x 4 1/8" (3.9 cm x 14.1 cm x 10.4 cm)

WEIGHT

1.45 lbs (0.65 kg)

POWER

PoE powered – no local power supply needed

MEMORY

- 64 Mbytes of RAM
- 256 Mbytes of FLASH

FRONT PANEL COMPONENTS

- Power LED (green): Solid on indicates power is on. Flashing indicates no network connection
- Status LED (green): Blinks to indicate that the unit is communicating with the NetLinx Master
- Output LED (red): Lights to indicate it is sending an XML file to the IP phone or a button press to the NetLinx Master
- Input LED (yellow): Lights to indicate it is receiving a command from the NetLinx Master or a button press HTTP message from the IP phone
- Pushbutton: For factory default configuration reset

REAR PANEL COMPONENTS

- LAN Port: 10/100 Ethernet with PoE
- LEDs: Show communication activity, connection status, speeds, and mode information:
  - SPD (speed): Yellow LED lights On when the connection speed is 100 Mbps and turns Off when the speed is 10 Mbps
  - L/A (link/activity): Green LED lights On when the Ethernet cables are connected and terminated correctly, and blinks when receiving Ethernet data packets

CERTIFICATIONS

FCC Class B, CE, IEC60950, RoHS / WEEE Compliant

OTHER AMX EQUIPMENT

- PS-POE-AF, PoE Injector (FG423-80)
- AC-DIN-CS3, Din Rail Mounting Bracket (FG532-01)
- AC-RK, Accessory Rack Kit (FG515)

RECOMMENDED ACCESSORIES

DESCRIPTION

PART #

PAGE #

PS-POE-AF

Power over Ethernet Injector

(FG423-80)

416



# EXP-5231

## MVP-5200i, NI-3100 & NXA-WAP1000 EXPerience System

(FG5966-120K)

(FG5966-121K)

(FG5966-122K)

(FG5966-123K)



### FEATURES

#### Four Kit Options

##### FG5966-120K

- MVP-5200i 5.2" Modero ViewPoint Touch Panel with Intercom - FG5966-01 – Gloss Black
- NI-3100 NetLinx Integrated Controller - FG2105-05
- NXA-WAP1000 Smart Wireless Access Point – FG2255-51 – For Operation in US

##### FG5966-121K

- MVP-5200i 5.2" Modero ViewPoint Touch Panel with Intercom - FG5966-02 – Gloss White
- NI-3100 NetLinx Integrated Controller - FG2105-05
- NXA-WAP1000 Smart Wireless Access Point – FG2255-51 – For Operation in US

##### FG5966-122K

- MVP-5200i 5.2" Modero ViewPoint Touch Panel with Intercom - FG5966-01 – Gloss Black
- NI-3100 NetLinx Integrated Controller - FG2105-05
- NXA-WAP1000 Smart Wireless Access Point – FG2255-53 – For Operation Outside the US

##### FG5966-123K

- MVP-5200i 5.2" Modero ViewPoint Touch Panel with Intercom - FG5966-02 – Gloss White
- NI-3100 NetLinx Integrated Controller - FG2105-05
- NXA-WAP1000 Smart Wireless Access Point – FG2255-53 – For Operation Outside the US



#### COUNTRY OF ORIGIN: MEXICO

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#### COUNTRY OF ORIGIN: CHINA

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#### COUNTRY OF ORIGIN: MALAYSIA

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# EXP-9031

## MVP-9000i, NI-3100 & NXA-WAP1000 EXPerience System

(FG5967-101K)

(FG5967-102K)

(FG5967-103K)

(FG5967-104K)



### FEATURES

#### Four Kit Options

##### FG5967-101K

- MVP-9000i 9" Modero ViewPoint Touch Panel with Intercom - FG5967-01 – Gloss Black
- NI-3100 NetLinx Integrated Controller - FG2105-05
- NXA-WAP1000 Smart Wireless Access Point – FG2255-51 – For Operation in US

##### FG5967-102K

- MVP-9000i 9" Modero ViewPoint Touch Panel with Intercom - FG5967-02 – Gloss White
- NI-3100 NetLinx Integrated Controller - FG2105-05
- NXA-WAP1000 Smart Wireless Access Point – FG2255-51 – For Operation in US

##### FG5967-103K

- MVP-9000i 9" Modero ViewPoint Touch Panel with Intercom - FG5967-01 – Gloss Black
- NI-3100 NetLinx Integrated Controller - FG2105-05
- NXA-WAP1000 Smart Wireless Access Point – FG2255-53 – For Operation Outside the US

##### FG5967-104K

- MVP-9000i 9" Modero ViewPoint Touch Panel with Intercom - FG5967-02 – Gloss White
- NI-3100 NetLinx Integrated Controller - FG2105-05
- NXA-WAP1000 Smart Wireless Access Point – FG2255-53 – For Operation Outside the US



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