NETWORK/COMMUNICATION

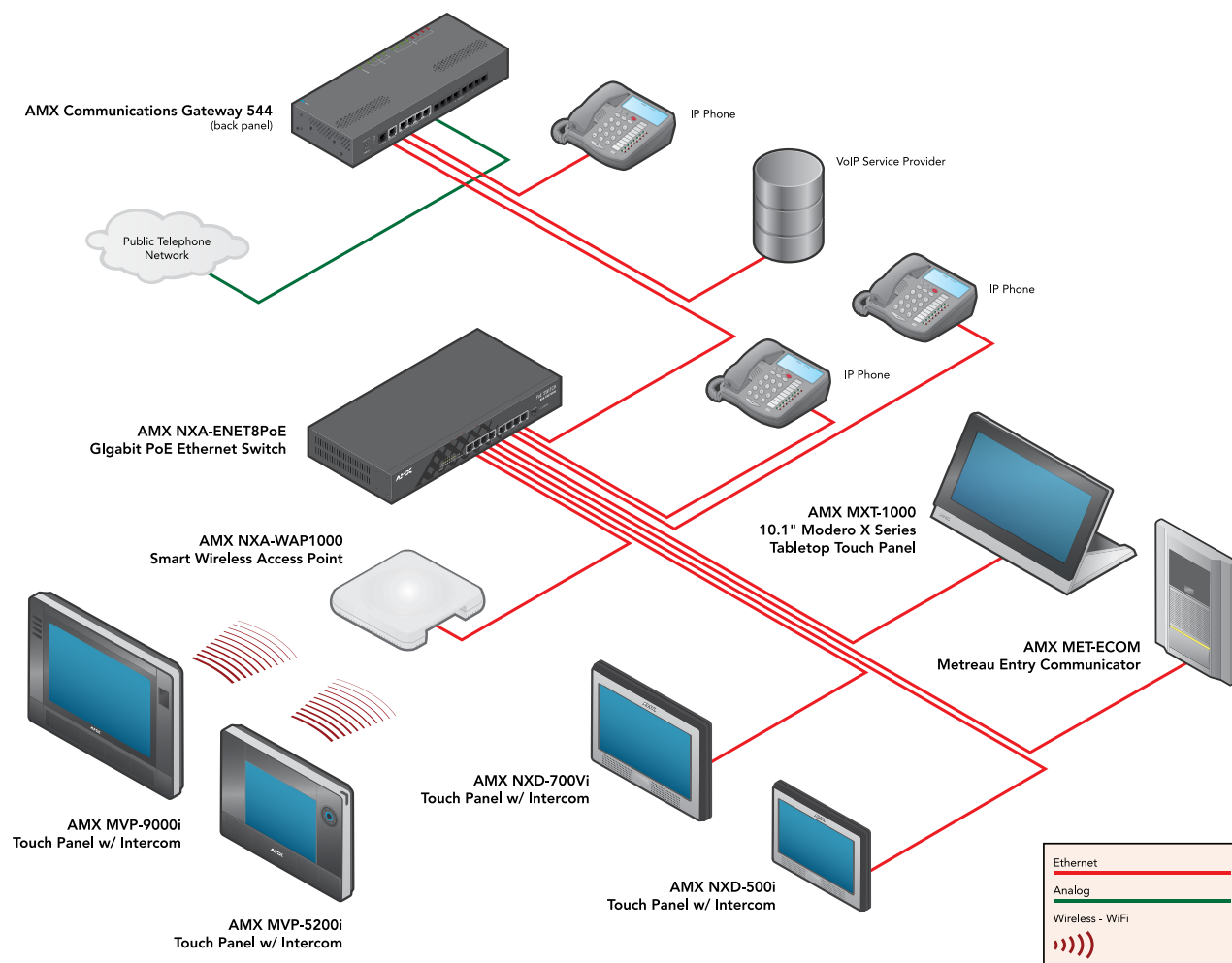# BRIDGE THE COMMUNICATION GAP

Down the Hall or Around the World, AMX Can Make it Happen

As the AV and IT industries continue to converge, AMX continues to bridge the gap between these cutting-edge technologies. Whether your customer wants to deliver voice or video communications down the hall or around the world, AMX has an arsenal of products designed to make it happen. From WiFi and ZigBee to the Apple® iPhone, AMX is leveraging our AV system experience to take advantage of other new communication and network technologies/products effectively extending our reach and our customers ability to reach around the world – now that's flexible communication.

SYSTEM DIAGRAM

This drawing shows a Communications Gateway connecting an AMX system to the public telephone network to enable telephone calls to/from a touch panel an. The Communications Gateway is acting as a PBX allowing phones and touch panels within a building to call one another as well as to make outside calls.
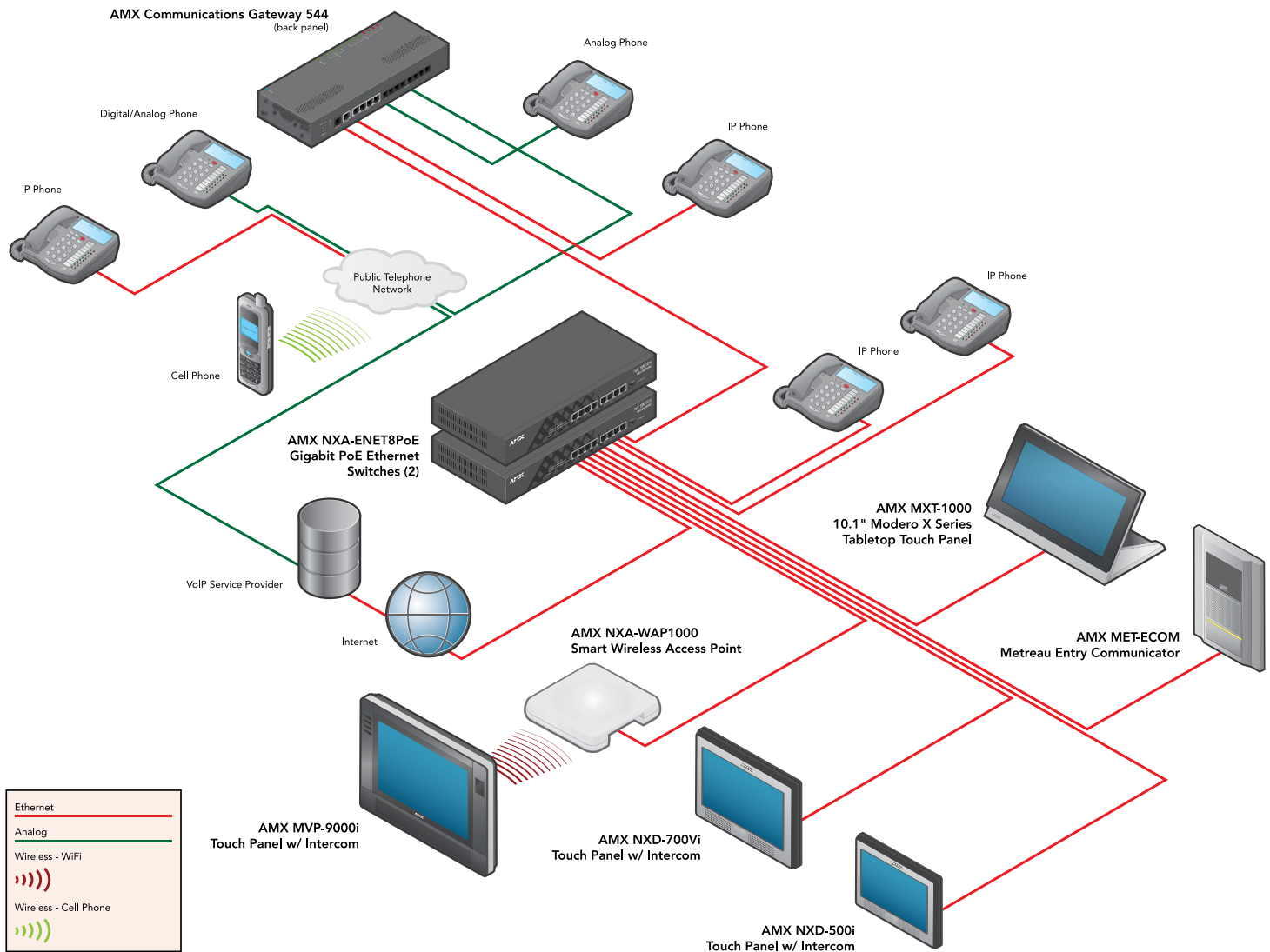

AMX Communications Gateway 544
(back panel)

IP Phone

VoIP Service Provider

Public Telephone Network

IP Phone

IP Phone

AMX NXA-ENET8PoE
GIgabit PoE Ethernet Switch

AMX MXT-1000
10.1" Modero X Series
Tabletop Touch Panel

AMX NXA-WAP1000
Smart Wireless Access Point

AMX MET-ECOM
Metreau Entry Communicator

AMX NXD-700Vi
Touch Panel w/ Intercom

AMX MVP-9000i
Touch Panel w/ Intercom

AMX NXD-500i
Touch Panel w/ Intercom

AMX MVP-5200i
Touch Panel w/ Intercom

Ethernet	
Analog	
Wireless - WiFi	

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Keypads & Remotes Brochure
Want to see our Keypads in action? Just visit http://www.amx.com/assets/literature/Keypad.brochure.pdf to download the latest literature.

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.

SYSTEM DIAGRAM (CONT.)

AMX Communications Gateway 544
(back panel)

Analog Phone

Digital/Analog Phone

IP Phone

IP Phone

Public Telephone Network

Cell Phone

IP Phone

IP Phone

AMX NXA-ENET8PoE
Gigabit PoE Ethernet
Switches (2)

AMX MXT-1000
10.1" Modero X Series
Tabletop Touch Panel

VoIP Service Provider

Internet

AMX NXA-WAP1000
Smart Wireless Access Point

AMX MET-ECOM
Metreau Entry Communicator

Ethernet
Analog
Wireless - WiFi
Wireless - Cell Phone

AMX MVP-9000i
Touch Panel w/ Intercom

AMX NXD-700Vi
Touch Panel w/ Intercom

AMX NXD-500i
Touch Panel w/ Intercom

MET-ECOM
Metreau Entry Communicator

■	MET-ECOM-BK	Black	(FG2180-01-BK)
□	MET-ECOM-WH	White	(FG2180-01-WH)
▨	MET-ECOM-AB	Antique Brass	(FG2180-01-AB)
▨	MET-ECOM-SS	Stainless Steel	(FG2180-01-SS)

OVERVIEW

The Metreau Entry Communicator enables doorbell notification to residents of hotels, homes, or condos from visitors at doors and gates. With the addition of an AMX Modero intercom touch panel, residents can see visitors via an integrated one-way color camera, have two-way audio conversations, and open doors or gates. Adding the AMX Communications Gateway will also enable residents to communicate with visitors from any telephone throughout the business or residence.

COMMON APPLICATION

Ideal for placement in residential outdoor entryways or next to doors to notify residents that visitors have arrived.

FEATURES

- 2-way VoIP audio to an intercom-enabled Modero Touch Panel
- 1-way video conferencing with any Touch Panel
- Includes I/Os and Relays
- Dual-color LED button provides feedback and doorbell notification
- Small form factor and shallow depth make for easy installation
- VoIP integration allows an unlimited number of entry communicators to be accommodated per system
- Camera angle can be easily positioned during installation to allow viewing of guests at door or gate
- Power over Ethernet
- Weather-resistant

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.
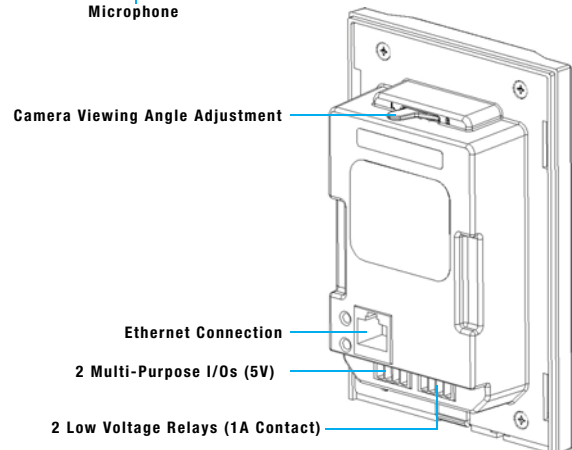
TRAINING AVAILABLE
For important installation, configuration and programming techniques, AMX University training is available. Just visit **www.amx.com/training**

A CLOSER LOOK

Video Camera

Speaker

Dual Color LED Status Bar (Yellow / Red)

Pushbutton (Doorbell)

Microphone

Camera Viewing Angle Adjustment

Ethernet Connection

2 Multi-Purpose I/Os (5V)

2 Low Voltage Relays (1A Contact)

SPECIFICATIONS

DIMENSIONS (HWD)
5 3/8" x 3 5/8" x 1 9/16" (13.62 cm x 9.13 cm x 3.96 cm)

WEIGHT
14.4 oz (408 g)

POWER
• PoE powered – no local Power Supply needed
• IEEE 802.3af Compliant

FRONT PANEL COMPONENTS
• Integrated Color Video Camera
• Speaker
• Dual Color LED Status Bar: (Yellow/ Red) can be used to provide feedback,
  to attract attention for action, or as general indicator
• Pushbutton (Doorbell)
• Microphone

INTEGRATED COLOR VIDEO CAMERA
• QVGA 320 x 240
• Supports Motion JPEG (MJPEG) and H.263 codecs
• Viewing Angle: 42º

SPEAKER
• 8 Ohm, 2W
• 80dB SPL (sound pressure level at 1 meter)
• Meets G.711 sound standard

MICROPHONE
• -40 dB sensitivity, built-in echo cancellation (telephone quality)
• Full duplex communication
• VoIP Telephony

REAR PANEL COMPONENTS
• Camera Viewing Angle Adjustment
• Ethernet Port – 10/100 Ethernet with PoE. LEDs show communication activity,
  connection status, speeds, and mode information:
  - SPD (speed) – Green LED lights On when the connection speed is 100 Mbps
    and turns Off when the speed is 10 Mbps
  - L/A (link/activity) – Orange LED lights On when the Ethernet cables are
    connected and terminated correctly and blinks when receiving Ethernet
    data packets
• 2 Multi-Purpose I/Os (5V): 2-channel binary I/O ports for contact closure with
  each input being capable of voltage sensing. Input format is software select
  able with interactive power sensing for IR ports
• 2 Low Voltage Relays (1A contact): 2-channel singlepole single throw relay
  ports with each relay being independently controlled and supporting up to 2
  independent external relay devices

MOUNTING
The MET-ECOM is installed in one of two ways:
• 4 screws for hard surface mounting
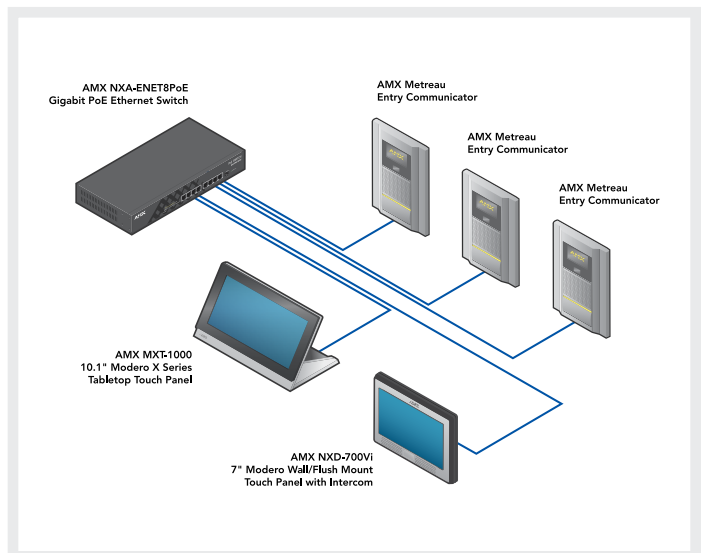• 2 expansion clips for pressure mounting

COLORS AVAILABLE
• Black MET-ECOM-BK (FG2180-01-BK)
• White MET-ECOM-WH (FG2180-01-WH)
• Antique Brass MET-ECOM-AB (FG2180-01-AB)
• Stainless Steel MET-ECOM-SS (FG2180-01-SS)

ENVIRONMENTAL
• Operating Temperature: -22º to 140º F (-30º to 60º C)
• Heat Dissipation (Typical): 20.5 BTU/hr

INCLUDED ACCESSORIES
Installation Kit- includes front mount flange, 4 installation screws
(#4-40 x 3.12), 2 Phoenix connectors (female, 3.5mm) and a Ferrite clip

AMX NXA-ENET8PoE
Gigabit PoE Ethernet Switch

AMX Metreau
Entry Communicator

AMX Metreau
Entry Communicator

AMX Metreau
Entry Communicator

AMX MXT-1000
10.1" Modero X Series
Tabletop Touch Panel

AMX NXD-700Vi
7" Modero Wall/Flush Mount
Touch Panel with Intercom

RECOMMENDED ACCESSORIES	DESCRIPTION	PART #	PAGE #
PS-POE-AF	Power over Ethernet Injector	(FG423-80)	360
NXA-ENET8POE	Gigabit PoE Ethernet Switch	(FG2178-62)	386

MET-ECOM-D
Metreau Entry Communicator w/Display

■	MET-ECOM-D-BK	Black	(FG2180-05-BK)
□	MET-ECOM-D-WH	White	(FG2180-05-WH)
▨	MET-ECOM-D-AB	Antique Brass	(FG2180-05-AB)
▨	MET-ECOM-D-SS	Stainless Steel	(FG2180-05-SS)

OVERVIEW

The Metreau Entry Communicator with display enables doorbell notification to residents of hotels, homes, or condos from visitors at doors and gates. With the addition of an AMX Modero Intercom-Enabled Touch Panel, residents can see visitors via an integrated one-way color camera, have two-way audio conversations, and open doors or gates. By taking advantage of the integrated 1.6" display (not weather-resistant), users have the option of placing custom logos, personalized greeting messages, privacy notifications and other announcements (e.g. "Welcome," "Do Not Disturb," "Make up Room") on the display. Adding the AMX Communications Gateway will also enable residents to communicate with visitors from any telephone throughout the business or residence.

COMMON APPLICATION

Ideal for residences to allow display of street address or family name or hotel rooms to display room or number or message for housekeeping or visitors.

FEATURES

• 2-way VoIP audio to an intercom-enabled Modero Touch Panel
• OLED display for personalized messaging
• 1-way video conferencing with any Touch Panel
• Includes I/Os and Relays that enable guest entry from a Modero Touch Panel
• Dual-color LED button provides feedback and doorbell notification
• Small form factor and shallow depth make for easy installation
• VoIP integration allows an unlimited number of entry communicators to be accommodated per system
• Camera angle can be easily positioned during installation to allow viewing of guests at door or gate
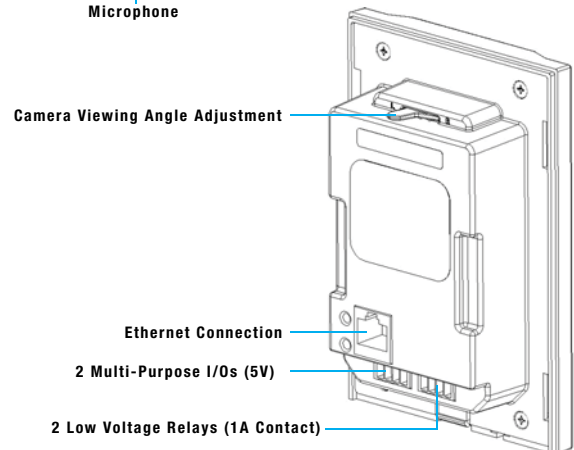• Power over Ethernet

A CLOSER LOOK

OLED Display
Video Camera
Speaker
Dual Color LED Status Bar (Yellow / Red)
Pushbutton (Doorbell)
Microphone

Camera Viewing Angle Adjustment

Ethernet Connection
2 Multi-Purpose I/Os (5V)
2 Low Voltage Relays (1A Contact)

SPECIFICATIONS

DIMENSIONS (HWD)
5 3/8" x 3 5/8" x 1 9/16" (13.62 cm x 9.13 cm x 3.96 cm)

WEIGHT
14.4 oz (408 g)

POWER
• PoE powered – no local Power Supply needed
• IEEE 802.3af Compliant

FRONT PANEL COMPONENTS
• OLED Display
• Integrated Color Video Camera
• Speaker
• Dual Color LED Status Bar: (Yellow/ Red) can be used to provide feedback,
  to attract attention for action, or as general indicator
• Pushbutton (Doorbell)
• Microphone

OLED DISPLAY
• 4-bit Gray Scale
• 1.6" Diagonal Display
• 180° Viewing Angle
• 2000: 1 Contrast Ratio
• Unit stores up to 50 .bmp images

INTEGRATED COLOR VIDEO CAMERA
• QVGA 320 x 240
• Supports Motion JPEG (MJPEG) and H.263 codecs.
• Viewing Angle: 42º

SPEAKER
• 8 Ohm, 2W
• 80dB SPL (sound pressure level at 1 meter)
• Meets G.711 sound standard

MICROPHONE
• -40 dB sensitivity, built-in echo cancellation (telephone quality)
• Full duplex communication
• VoIP Telephony

REAR PANEL COMPONENTS
• Camera Viewing Angle Adjustment
• Ethernet Port – 10/100 Ethernet with PoE. LED show communication activity,
  connection status, speeds, and mode information:
  - SPD (speed) – Green LED lights On when the connection speed is 100 Mbps
    and turns Off when the speed is 10 Mbps
  - L/A (link/activity) – Orange LED lights On when the Ethernet cables are
    connected and terminated correctly, and blinks when receiving Ethernet
    data packets.
• 2 Multi-Purpose I/Os (5V): 2-channel binary I/O ports for contact closure with
  each input being capable of voltage sensing. Input format is software
  selectable with interactive power sensing for IR ports.
• 2 Low Voltage Relays (1A contact): 2-channel single-pole single throw relay
  ports with each relay being independently controlled and supporting up to 2
  independent external relay devices.

MOUNTING
The MET-ECOM-D is installed in one of two ways:
  • 4 screws for hard surface mounting
  • 2 expansion clips for pressure mounting

COLORS AVAILABLE
• Black MET-ECOM-BK (FG2180-05-BK)
• White MET-ECOM-WH (FG2180-05-WH)
• Antique Brass MET-ECOM-AB (FG2180-05-AB)
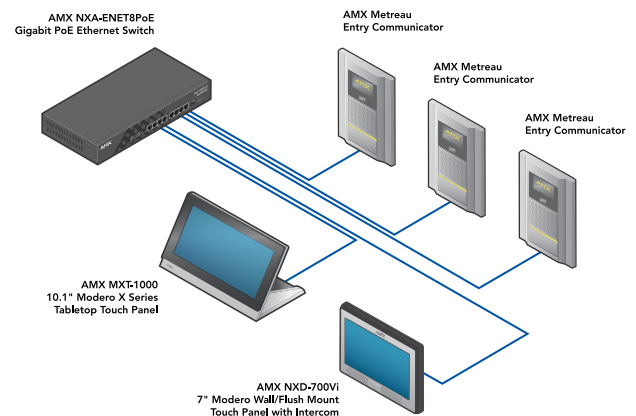• Stainless Steel MET-ECOM-SS (FG2180-05-SS)

CERTIFICATIONS
FCC Class B, CE, IEC 60950, RoHS

ENVIRONMENTAL
• Operating Temperature: -22º to 140º F (-30º to 60º C)
• Heat Dissipation (Typical): 20.5 BTU/hr

INCLUDED ACCESSORIES
Installation Kit- includes front mount flange, 4 installation screws
(#4-40 x 3.12), 2 Phoenix connectors (female, 3.5mm) and a Ferrite clip

AMX NXA-ENET8PoE
Gigabit PoE Ethernet Switch

AMX Metreau
Entry Communicator

AMX Metreau
Entry Communicator

AMX Metreau
Entry Communicator

AMX MXT-1000
10.1" Modero X Series
Tabletop Touch Panel

AMX NXD-700Vi
7" Modero Wall/Flush Mount
Touch Panel with Intercom

RECOMMENDED ACCESSORIES	DESCRIPTION	PART #	PAGE #
PS-POE-AF	Power over Ethernet Injector	(FG423-80)	360
NXA-ENET8POE	Gigabit PoE Ethernet Switch	(FG2178-62)	386

CSG-500
Communications Gateway

CSG-500   Gateway for 50 Users   (FG2182-01)

OVERVIEW

The CSG-500 Communications Gateway is a stand alone PBX (Private Branch Exchange) that allows intercom-enabled Modero Touch Panels to be transformed into full-featured IP phones. With the CSG and an intercom-enabled Modero Touch Panel, you have access to phone features like call waiting, caller ID, call queuing, and voice mail. The CSG supports AMX touch panels with intercom functionality, which include the MVP-8400i, NXD-1000Vi, and NXD-700Vi, as well as third-party SIP phones. The CSG-500 runs a version of Asterisk which is an industry standard for VoIP PBX systems.

COMMON APPLICATION

Ideal for installation in residences and commercial applications where it is useful to use a touch panel as an intercom or to to make or receive phone calls from other touch panels or telephones anywhere in the world.

FEATURES

- Local, long distance, and international calling via VoIP service providers
- Caller ID, call waiting, call groups, call queuing, IVR support and voice mail
- Uses Session Initiation Protocol, the standard for VoIP technology
- Supports both AMX intercom enabled touch panels and third-party SIP phones
- Supports up to 50 users and 25 concurrent calls

TRAINING AVAILABLE
For important installation, configuration and programming techniques, AMX University training is available. Just visit 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.

SPECIFICATIONS

DIMENSIONS (HWD)
- 1 3/4" x 11 1/2" x 5 1/2" (4.41 cm x 29.09 cm x 13.82 cm)
- RU: 1

WEIGHT
2.25 lbs (1.02 kg)

ENCLOSURE
Metal with black matte finish

POWER REQUIREMENTS
Constant current draw: 2.6 A @ 12 VDC

MEMORY
- 8 MB on board serial Flash memory
- 64 MB 16-bit parallel SDRAM

CERTIFICATIONS
FCC (Class A), CE, IEC 60950, and 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 70° C (158° F)
- Storage Humidity: 0% to 85% RH Non-Condensing
- Heat Dissipation (Typical): 106.6 BTU/hr

FRONT PANEL COMPONENTS
- Power LED: Indicates whether the unit is turned on and receiving power
- Network LED: Indicates whether a network cable is connected and the speed of the network
- IP Phones LEDs: Indicates whether the corresponding link is connected and the speed of the link
- Analog LEDs: Indicates whether the analog port is installed and the type of port (FXO/FXS) installed (Not available on all models.)
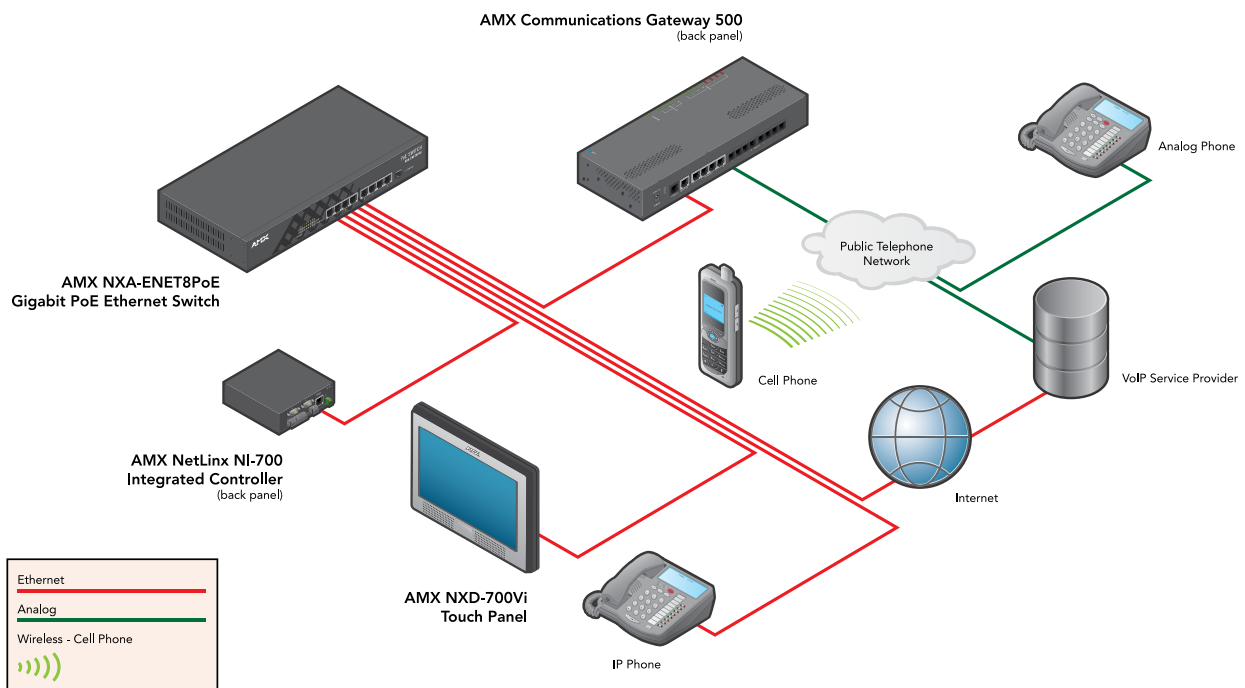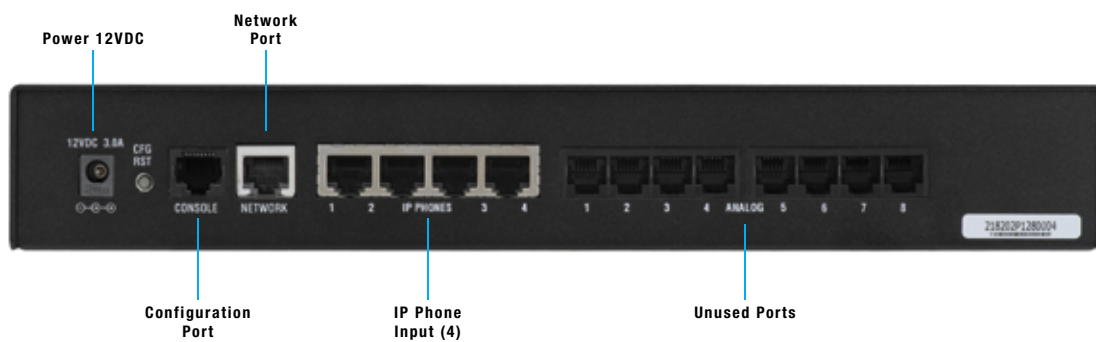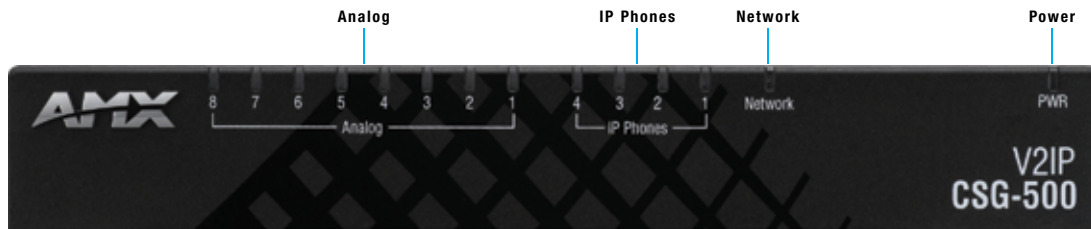
REAR PANEL COMPONENTS
- Power Connector: 5.1 mm OD, 2.1 mm pin, 12V 3.0A center positive
- Configuration Reset Switch: Resets the current configuration to the factory default when pressed.
- Console port: 1 RJ-45 10/100baseT port for console (craft) port serial control
- Network port: 1 RJ-45 10/100baseT port for a general (WAN) connection
- IP phones ports: 4 RJ-45 10/100baseT ports for IP phone connections

INCLUDED ACCESSORIES
- PS5.0, Power Supply, 5.0A, 12.0 VDC (FG423-31)
- CSG Communications Gateway Installation Guide (93-2182-01)
- 2 Surface mounting brackets (62-2182-04)
- 4 #4-40 x .250 PPH screws (80-0112)

A CLOSER LOOK

Analog   IP Phones   Network   Power

Power 12VDC

Network Port

Configuration Port

IP Phone Input (4)

Unused Ports

AMX Communications Gateway 500
(back panel)

Analog Phone

AMX NXA-ENET8PoE
Gigabit PoE Ethernet Switch

Public Telephone Network

Cell Phone

VoIP Service Provider

AMX NetLinx NI-700
Integrated Controller
(back panel)

Internet

Ethernet

Analog

Wireless - Cell Phone

AMX NXD-700Vi
Touch Panel

IP Phone

CSG-544
Communications Gateway

CSG-544   Gateway for 50 Users,   (FG2182-02)
4 analog phone input ports,
4 PSTN output ports

OVERVIEW

The CSG-544 Communications Gateway supports internal calling for up to 50 users as well as featuring four analog phone input ports and four analog PSTN output ports for making external local, long distance and international calls. This is a stand alone PBX (Private Branch Exchange) that enables any intercom-enabled Modero Touch Panel to be transformed into a full-featured IP phone. With the CSG and an intercom-enabled Modero Touch Panel, you have access to phone features like call waiting, caller ID, call queuing, and voice mail. The CSG supports AMX intercom-enabled touch panels, such as the MVP-8400i, NXD-1000Vi, and NXD-700Vi, as well as 3rd party IP phones. The CSG-544 runs a version of Asterisk and can function not only as a PBX, but also as VoIP ATA, or VoIP gateway. It has eight analog ports that can be configured (via modules) as 4 Foreign Exchange Office (FXO) ports and 4 Foreign Exchange Station (FXS) ports.

COMMON APPLICATION

Ideal for installation in residences and commercial applications for adding internal calling for up to 50 users, support for four analog phones and up to four lines of external local, long distance and international telephone calling capability.

FEATURES

• Local, long distance, and international calling
• Caller ID, call waiting, call groups, call queuing, and voice mail
• Uses Session Initiation Protocol, the standard for VoIP technology
• Supports both AMX touch panels with intercom functionality and 3rd party IP phones
• Supports up to 50 users
• Includes four analog phone input ports for use of up to four analog phones and four analog PSTN output ports for external local, long distance and international calling

TRAINING AVAILABLE
For important installation, configuration and programming techniques, AMX University training is available. Just visit www.amx.com/training

SPECIFICATIONS

DIMENSIONS (HWD)
• 1 3/4" x 11 1/2" x 5 1/2" (4.41 cm x 29.09 cm x 13.82 cm)
• RU: 1

WEIGHT
2.25 lbs (1.02 kg)

ENCLOSURE
Metal with black matte finish

POWER REQUIREMENTS
Constant current draw: 2.6 A @ 12 VDC

MEMORY
• 8 MB on board serial Flash memory
• 64 MB 16-bit parallel SDRAM

CERTIFICATIONS
FCC (Class A), CE, IEC 60950, and 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 70° C (158° F)
• Storage Humidity: 0% to 85% RH Non-Condensing
• Heat Dissipation (Typical): 106.6 BTU/hr

FRONT PANEL COMPONENTS
• Power LED: Indicates whether the unit is turned on and receiving power
• Network LED: Indicates whether a network cable is connected and the speed of the network
• IP Phones LEDs: Indicates whether the corresponding link is connected and the speed of the link
• Analog LEDs: Indicates whether the analog port is installed and the type of port (FXO/FXS) installed (Not available on all models.)

REAR PANEL COMPONENTS
• Power Connector: 5.1 mm OD, 2.1 mm pin, 12V 3.0A center positive
• Configuration Reset Switch: Resets the current configuration to the factory default when pressed.
• Console port: 1 RJ-45 10/100baseT port for console (craft) port serial control
• Network port: 1 RJ-45 10/100baseT port for a general (WAN) connection
• IP phones ports: 4 RJ-45 10/100baseT ports for IP phone connections

INCLUDED ACCESSORIES
• PS5.0, Power Supply, 5.0A, 12.0 VDC (FG423-31)
• CSG Communications Gateway Installation Guide (93-2182-01)
• 2 Surface mounting brackets (62-2182-04)
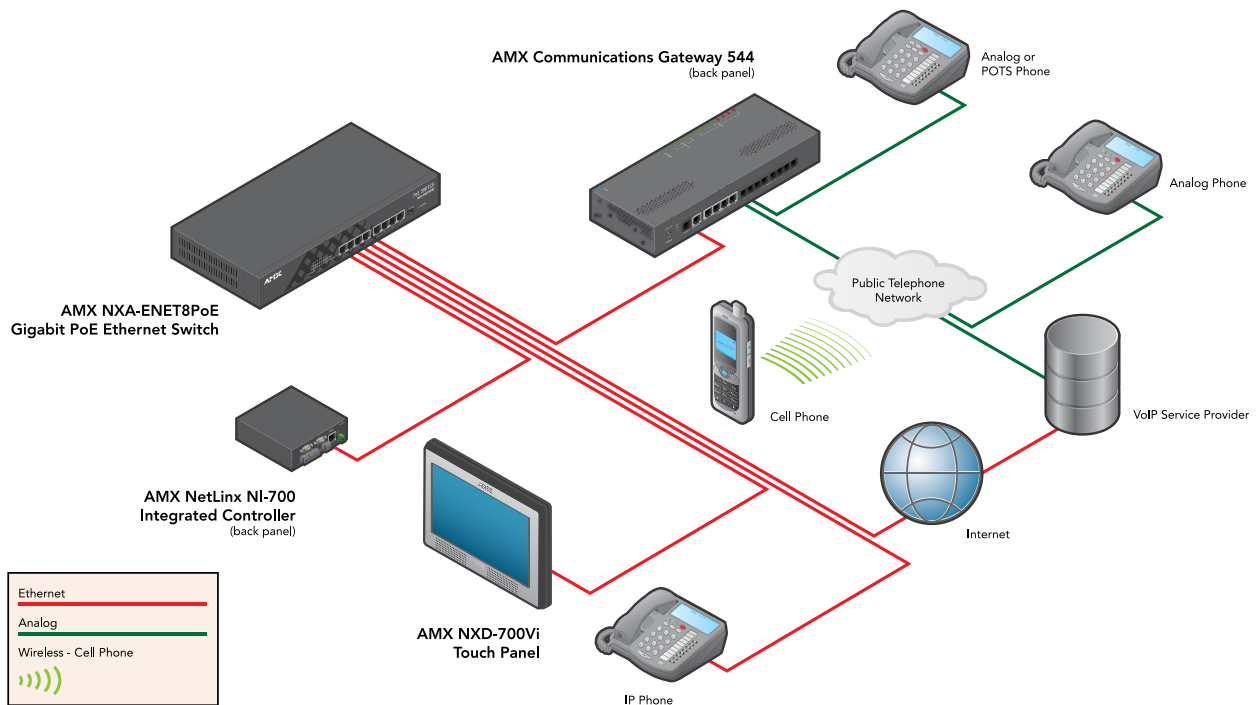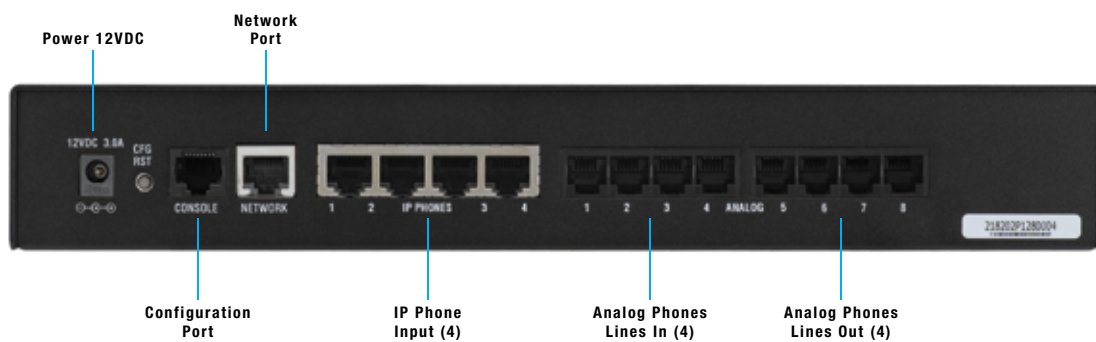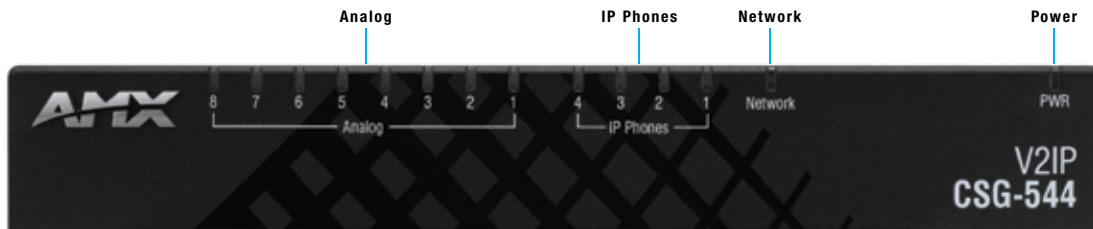• 4 #4-40 x .250 PPH screws (80-0112)

A CLOSER LOOK

Analog   IP Phones   Network   Power

V2IP
CSG-544

Power 12VDC

Network
Port

Configuration
Port

IP Phone
Input (4)

Analog Phones
Lines In (4)

Analog Phones
Lines Out (4)

AMX Communications Gateway 544
(back panel)

Analog or
POTS Phone

Analog Phone

Public Telephone
Network

AMX NXA-ENET8PoE
Gigabit PoE Ethernet Switch

Cell Phone

VoIP Service Provider

AMX NetLinx NI-700
Integrated Controller
(back panel)

Internet

Ethernet	
Analog	
Wireless - Cell Phone	

AMX NXD-700Vi
Touch Panel

IP Phone

CSG-580
Communications Gateway

CSG-580   Gateway for 50 Users,   (FG2182-03)
               8 PSTN lines

OVERVIEW

The CSG-580 Communications Gateway supports internal calling for up to 50 users as well as featuring eight analog PSTN output ports for making external local, long distance and international calls. This is a stand alone PBX (Private Branch Exchange) that enables any intercom-enabled Modero Touch Panel to be transformed into a full-featured IP phone. With the CSG and an intercom-enabled Modero Touch Panel, you have access to phone features like call waiting, caller ID, call queuing, and voice mail. The CSG supports AMX intercom enabled touch panels, such as the MVP-8400i, NXD-1000Vi, and NXD-700Vi, as well as 3rd party IP phones. The CSG-580 runs a version of Asterisk and can function not only as a PBX, but also as VoIP ATA, or VoIP gateway. It has eight analog ports that can be configured (via modules) as Foreign Exchange Office (FXO) ports.

COMMON APPLICATION

Ideal for installation in residences and commercial applications for adding internal calling for up to 50 users or external local, long distance and international telephone calling capability for up to eight users simultaneously.

FEATURES

- Local, long distance, and international calling
- Caller ID, call waiting, call groups, call queuing, and voice mail
- Uses Session Initiation Protocol, the standard for VoIP technology
- Supports both AMX intercom enabled touch panels and 3rd party IP phones
- Supports up to 50 users
- Includes eight analog PSTN output ports for supporting up to eight users in making external local, long distance and international calls

TRAINING AVAILABLE
For important installation, configuration and programming techniques, AMX University training is available. Just visit www.amx.com/training

SPECIFICATIONS

DIMENSIONS (HWD)
- 1 3/4" x 11 1/2" x 5 1/2" (4.41 cm x 29.09 cm x 13.82 cm)
- RU: 1

WEIGHT
2.25 lbs (1.02 kg)

ENCLOSURE
Metal with black matte finish

POWER REQUIREMENTS
Constant current draw: 2.6 A @ 12 VDC

MEMORY
- 8 MB on board serial Flash memory
- 64 MB 16-bit parallel SDRAM

CERTIFICATIONS
FCC (Class A), CE, IEC 60950, and 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 70° C (158° F)
- Storage Humidity: 0% to 85% RH Non-Condensing
- Heat Dissipation (Typical): 106.6 BTU/hr

FRONT PANEL COMPONENTS
- Power LED: Indicates whether the unit is turned on and receiving power
- Network LED: Indicates whether a network cable is connected and the speed of the network
- IP Phones LEDs: Indicates whether the corresponding link is connected and the speed of the link
- Analog LEDs: Indicates whether the analog port is installed and the type of port (FXO/FXS) installed (Not available on all models.)

REAR PANEL COMPONENTS
- Power Connector: 5.1 mm OD, 2.1 mm pin, 12V 3.0A center positive
- Configuration Reset Switch: Resets the current configuration to the factory default when pressed.
- Console port: 1 RJ-45 10/100baseT port for console (craft) port serial control
- Network port: 1 RJ-45 10/100baseT port for a general (WAN) connection
- IP phones ports: 4 RJ-45 10/100baseT ports for IP phone connections
- Analog Ports: 8 RJ-11 ports for FXO connections

INCLUDED ACCESSORIES
- PS5.0, Power Supply, 5.0A, 12.0 VDC (FG423-31)
- CSG Communications Gateway Installation Guide (93-2182-01)
- 2 Surface mounting brackets (62-2182-04)
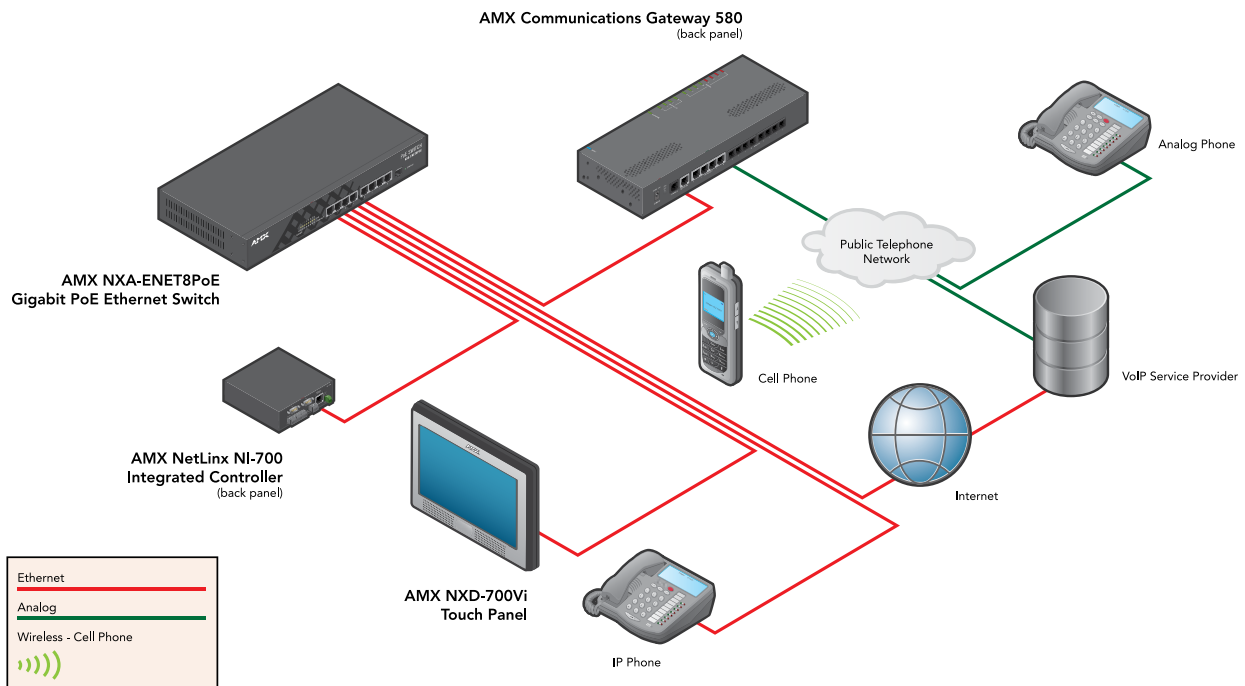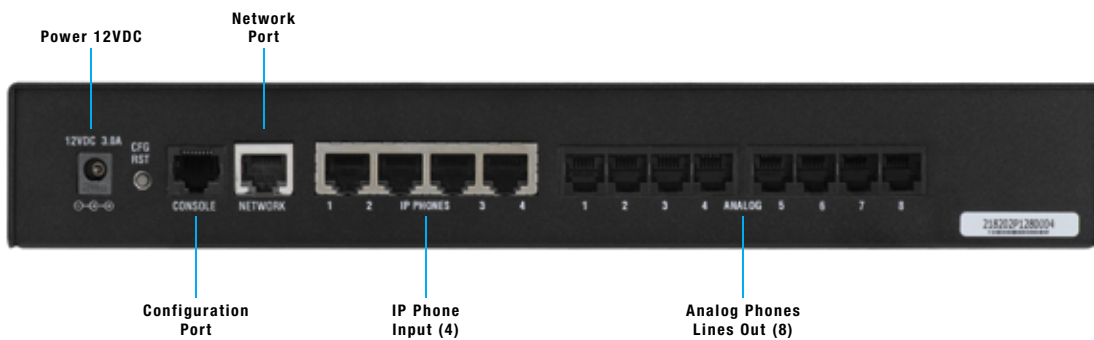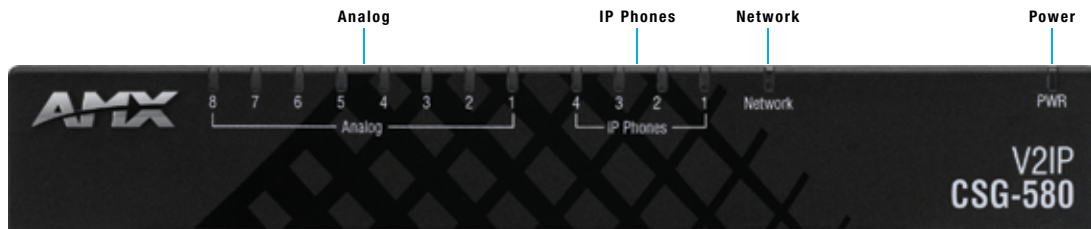- 4 #4-40 x .250 PPH screws (80-0112)

A CLOSER LOOK

Analog   IP Phones   Network   Power

Power 12VDC   Network
               Port

Configuration   IP Phone   Analog Phones
Port   Input (4)   Lines Out (8)

AMX Communications Gateway 580
(back panel)

Analog Phone

AMX NXA-ENET8PoE
Gigabit PoE Ethernet Switch

Public Telephone
Network

Cell Phone

VoIP Service Provider

AMX NetLinx NI-700
Integrated Controller
(back panel)

Internet

Ethernet

Analog

Wireless - Cell Phone

AMX NXD-700Vi
Touch Panel

IP Phone

NXA-WAP1000
Smart Wireless Access Point

For Operation in US   (FG2255-51)
For Operation Outside the US   (FG2255-53)

OVERVIEW

The NXA-WAP1000 is a high-performance 802.11a/b/g/n smart Wi-Fi access point for homes and businesses that utilizes industry acclaimed Ruckus Wireless Technology. The NXA-WAP1000 can be deployed as a standalone access point or as part of a centrally-controlled Smart Wireless LAN when combined with the AMX NXA-WAPZD1000 Wireless LAN zone director. With a sleek modern design, small form factor and Power over Ethernet (PoE), the NXA-WAP1000 can be mounted on the ceiling to maximize performance without disturbing aesthetics or requiring a local power supply.

COMMON APPLICATION

Ideal for homes and businesses that require reliable high-speed wireless connectivity over a wide area. The NXA-WAP1000 is perfect for environments where high bandwidth applications such as video streaming are accessed simultaneously from several wireless devices such as iPads, laptops, and gaming consoles.

FEATURES

• **Ruckus Patented Smart Wi-Fi Antenna Array Technology** – Ruckus's BeamFlex™ Technology provides a 2 to 4x improvement in signal range and adaptive signal steering for the industry's most reliable Wi-Fi

• **Automatic Interference Mitigation** – The NXA-WAP1000 automatically adapts to Wi-Fi network changes and continually determines the best signal path for any given Wi-Fi signal on a per packet basis

• **High-performance Dual-band 802.11a/b/g/n (5GHz/2.4GHz) Access Point** – Deliver consistent high-performance signals to new 802.11n and legacy 802.11a/b/g clients

• **Smart Wireless Meshing** – When used with an AMX NXA-WAPZD1000 Wireless LAN zone director, simplifies deployment and reduces installation cost by eliminating the need to run Ethernet cable to every Smart Wi-Fi access point

• **Multiple Ethernet Ports** – Local Ethernet ports enable connectivity of wired devices such as printers, registers, VoIP phones, servers, etc.

• **Sleek, Low-profile PoE Enclosure** – Easily mount on the ceiling or under a desk to maximize performance without disturbing aesthetics or requiring a local power supply

• **State-of-the-Art Security** – all the latest link layer encryption and authentication mechanisms are included but made simple to administer and manage

• **Supports IP-based Services** – The NXA-WAP1000 supports concurrent Internet and IP-based video services

• **Advanced Quality of Service and Data Prioritization** – QoS and data packet prioritization ensure latency-sensitive traffic such as VoIP calls are prioritized over other types of data

• **Guest Network Support** – Easy to configure guest networking provides temporary access to both residential and corporate guests while protecting the main network

BULLSEYE TARGET PRODUCT
This is a Target Product as defined in the U.S. BullsEye Partnership Program. Participating AMX Dealers can be rewarded for purchasing Target Products as a % of their total annual net revenue.

DID YOU KNOW?
The NXA-WAP1000 is compatible with existing wireless investments, the NXA-WAP1000 series enhances performance and range for legacy 802.11a/b/g clients and supports the 802.11n standard for bandwidth intensive applications like video streaming and VoIP.

TRAINING AVAILABLE
For important installation, configuration and programming techniques, AMX University training is available. Just visit www.amx.com/training

SPECIFICATIONS

DIMENSIONS (HWD)
1 3/8" x 7" x 7" (36 mm x 178 mm x 178 mm)

WEIGHT
14.1 oz (397 g)

POWER
• External power adapter (sold separately - FG2255-61)
• Input: 110-240V AC
• Output: 12V DC, 1.5A
• Power over Ethernet Class 0

ETHERNET PORTS
• 1 auto MDX, auto-sensing10/100/1000 Mbps, RJ-45, POE port
• 2 auto MDX, auto-sensing 10/100 Mbps, RJ-45 ports

ANTENNA
Internal software-configurable antenna that provides over 300 unique patterns

CONCURRENT STATIONS
200+ (100+/radio)

VO-FI CLIENTS
Up to 20 simultaneously

CONFIGURATION
Web user interface, CLI (Telnet), SSH HTTP/S, SNMP via ZoneDirector

STATISTICS
LAN, wireless and associated stations (accessible via Web UI)

STANDARDS
• IEEE 802.11a/b/g/n
• 2.4 GHz and 5 GHz

SUPPORTED DATA RATES
• 802.11n: 6.5 Mbps – 130 Mbps (20 MHz) 6.5 Mbps – 300 Mbps (40 MHz)
• 802.11a: 54, 48, 36, 24, 18, 12, 9 and 6 Mbps
• 802.11b: 11, 5.5, 2 and 1 Mbps
• 802.11g: 54, 48, 36, 24, 18, 12, 9 and 6 Mbps

RADIO CHAINS
2 x 2

SPATIAL STREAMS
2

RF POWER OUTPUT
• 26 dBm for 2.4 GHz
• 24 dBm for 5 GHz
• Country-specific power settings are configurable

CHANNELIZATION
20 MHz and/or 40 MHz

FREQUENCY BAND
• IEEE 802.11n: 2.4 – 2.484 GHz and.5.15 – 5.85 GHz
• IEEE 802.11a: 5.15 – 5.85 GHz
• IEEE 802.11b: 2.4 – 2.484 GHz

OPERATING CHANNELS
• US/Canada: 1-11
• Europe (ETSI X30): 1-13
• Japan X41: 1-13
• 5GHz channels: Country dependent for the following channel ranges: 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 149, 153, 157, 161, 165

BSSID
Up to eight per radio

WIRELESS SECURITY
WEP, WPA-PSK, WPA-TKIP, WPA2 AES, 802.11i

CERTIFICATIONS
• U.S., Europe, Australia, Brazil, Canada, China, Hong Kong, India, Mexico, New Zealand, Thailand, Vietnam
• WEEE/RoHS compliance
• EN-60601-1-2
• Wi-Fi Alliance

RECOMMENDED ACCESSORIES

	DESCRIPTION	PART #	PAGE #
NXA-WAPZD1000	Wireless LAN Zone Director	(FG2255-54 - 60)	382
NXA-ENET8POE	Gigabit PoE Ethernet Switch	(FG2178-62)	386
NXA-WAP1000-PS	US Power Supply - Single	(FG2255-61)	
NXA-WAP1000-PSEU	European Power Supply - 10 Pack	(FG2255-65)	
NXA-WAP1000-PSAU	Australian Power Supply - 10 Pack	(FG2255-66)	
NXA-WAP1000-PSCN	China Power Supply - 10 Pack	(FG2255-68)	
NXA-WAP1000-PSIN	India Power Supply - 10 Pack	(FG2255-69)	
NXA-WAP1000-PSKR	Korea Power Supply - 10 Pack	(FG2255-70)	
NXA-WAP1000-PSEU	European Power Supply - 10 Pack	(FG2255-71)	
NXA-WAP1000-PSUK	United Kingdom Power Supply - 10 Pack	(FG2255-72)	
PS-POE-AF	PoE Injector	(FG423-80)	360

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AMX

381

NXA-WAPZD1000
ZoneDirector Smart WLAN Controller

NXA-WAPZD1000	(FG2255-52)
NXA-WAPZD1000-EU	(FG2255-54K)
NXA-WAPZD1000-AU	(FG2255-55K)
NXA-WAPZD1000-CN	(FG2255-56K)
NXA-WAPZD1000-INI	(FG2255-57K)
NXA-WAPZD1000-KR	(FG2255-58K)
NXA-WAPZD1000-UK	(FG2255-59K)
NXA-WAPZD1000-UU	(FG2255-60K)

OVERVIEW

The NXA-WAPZD1000 is a centrally managed wireless LAN (WLAN) controller for homes and business that delivers exceptional performance by integrating the Ruckus Smart/OS application engine. It delivers advanced features such as smart wireless meshing, hotspot authentication, elegant guest networking and dynamic Wi-Fi security. Redundant and secure, the AMX Zone Director provides WLAN-wide network, security, RF and location management within a single, easy-to-use and affordable WLAN system.

COMMON APPLICATION

Ideal for homes and businesses that require a robust and secure WLAN that can be easily deployed, centrally managed and automatically tuned.

FEATURES

- **Configure and Install in Minutes** – Automatically discovers and configures AMX NXA-WAP1000 Wireless Access Points making them instantly manageable
- **Smart Wireless Mesh Networking** – Simplifies deployment and reduces installation cost by eliminating the need to run Ethernet cable to every AMX NXA-WAP1000
- **Automatically Adapts to Wi-Fi Signal Changes in Real-time** – The SmartMesh Networking is self-organizing, self-optimizing, and self-healing to provide maximum performance and reliability
- **Complete Centralized WLAN Control** – Dynamically controls the RF channel assignment and transmit power level for each NXA-WAP1000 Wireless Access Point
- **Integrated Wi-Fi Client Performance Tools** – Ruckus SpeedFlex™ allows administrators to locally or remotely determine client Wi-Fi performance over the wireless LAN to improve troubleshooting
- **Secure Admission Control Across the WLAN** – The NXA-WAP1000 centralizes authentication and authorization decisions for all access points

- **Automatic User Security** – Supports Ruckus's patent-pending Dynamic Pre-Shared Key (PSK) capability eliminating the requirement to configure and update individual PC client devices with unique encryption keys

BULLSEYE TARGET PRODUCT
This is a Target Product as defined in the U.S. BullsEye Partnership Program. Participating AMX Dealers can be rewarded for purchasing Target Products as a % of their total annual net revenue.

DID YOU KNOW?
The NXA-WAPZD1000 features advanced wireless networking features include rogue AP detection, band steering, airtime fairness, WLAN groupings, role-based user policies, and client thresholds per AP.

TRAINING AVAILABLE
For important installation, configuration and programming techniques, AMX University training is available. Just visit www.amx.com/training

COUNTRY OF ORIGIN: CHINA
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.

COUNTRY OF ORIGIN: MALAYSIA
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.

SPECIFICATIONS

POWER ADAPTER VARIATIONS
- FG2255-52: Includes US Power Adapter for use in US, Canada, Colombia, Ecuador, Mexico
- FG2255-54K: Includes EU Power Adapter for use in Europe (except UK), Chile, Egypt, Indonesia, Pakistan, Saudi Arabia (except Dharan), Vietnam
- FG2255-55K: Includes AU Power Adapter for use in Australia and New Zealand
- FG2255-56K: Includes China AU style CCC certified Power Adapter for use in China
- FG2255-57K: Includes India Power Adapter
- FG2255-58K: Includes Korea Power Adapter
- FG2255-59K: Includes UK Power Adapter for use in the United Kingdom, Hong Kong, Malaysia, Singapore, and United Arab Emirates (UAE)
- FG2255-60K: Includes US Power Adapter with 110 and 220 power input for use in: Brazil, Philippines, Saudi Arabia (Dharan), Taiwan, Thailand, Uruguay

DIMENSIONS (HWD)
1 1/2" x 6 5/16" x 9 13/16" (39 mm x 159 mm x 250 mm)

WEIGHT
2.2 lbs (1 kg)

POWER
- External power adapter
- Input: 110 – 240V AC
- Output: 12V DC, 1A

ETHERNET PORTS
2 ports, auto MDX, auto-sensing 10/100/1000 Mbps, RJ-45

LED DISPLAY
Power/status

ENVIRONMENTAL
- Operating Temperature: 32°F (0°C) to 122°F (50°C)
- Operating humidity: 15% to 95% non-condensing

CONFIGURATION
Web user interface

STATISTICS
LAN, wireless and associated stations (available via UI)

VLAN SUPPORT
802.1Q (per BSSID)

AP DISCOVERY & CONTROL
Layer-2 or Layer-3

WLANS (BSSIDS)
Up to 32

ACCESS LISTS (ACLS)
- Layer-2 (MAC address based ACL)
- Layer-3 (IP address based ACL)
- L2 client isolation

WIRELESS INTRUSION DETECTION (WIDS)
- Rogue AP detection
- DoS attack prevention
- Password guessing protection
- Rate limiting

WIRELESS SECURITY
WEP, WPA-TKIP, WPA2-AES, 802.11i

AUTHENTICATION
- 802.1X, local database
- External AAA servers: ActiveDirectory/RADIUS/LDAP

LOCAL AUTHENTICATION
1000 user entries

COUNTRIES
U.S., Europe, Canada, Australia, Chile, Colombia, Hong Kong, India, Malaysia, Philippines, Saudi Arabia, Singapore, Thailand, UAE

NUMBER OF MANAGED APS
Up to 6

CONCURRENT STATIONS
Up to 1250

RECOMMENDED ACCESSORIES

	DESCRIPTION	PART #	PAGE #
NXA-ENET8POE	Gigabit PoE Ethernet Switch	(FG2178-62)	386
NXA-WAPZD12	Upgrades Zone Director from 6 to 12 licenses	(FG2255-62)	
NXA-WAPZD25	Upgrades Zone Director from 12 to 25 licenses	(FG2255-63)	
NXA-WAPZD50	Upgrades Zone Director from 25 to 50 licenses	(FG2255-64)	
NXA-WAP1000-PS	NXA-WAP1000 Power Supplies	(FG2255-61)	
NXA-WAPZD	Zone Director License Upgrades	(FG2255-62)	

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383

NXR-ZGW-PRO

NetLinx® ZigBee Pro Gateway

(FG5791-11)

OVERVIEW

The ZigBee Pro Gateway enhances the original ZigBee Gateway, which allows Mio Modero R-4 and R-3 Remotes the ability to wirelessly communicate with NetLinx Controllers and control connected system devices. ZigBee Pro is an ideal solution for retrofit projects where control wires cannot be run and for installations such as Government or Bank Buildings, where 802.11 security concerns prevent it from being used. ZigBee Pro Repeaters are also available to extend ZigBee coverage throughout a building.

FEATURES

- **Improved Range and Greater Roaming Distance** - ZigBee Pro Gateways feature 6dB of improved sensitivity which translates to up to 65 additional feet of range (actual performance can vary based on the environment).
- **Supports Third Party Devices** - While Mio R-3 and R-4 Remotes are currently the only AMX-supported ZigBee Pro devices, the ZigBee Pro Gateway will be able to communicate with third party ZigBee Pro devices in the future.
- **Encrypted for Security** - All wireless communications on ZigBee Pro are encrypted, further protecting user data and ZigBee Pro utilizes the 802.15.4 protocol, offering an alternative to 802.11.
- **Onboard Diagnostic Tool With Signal Strength** - A convenient diagnostic tool is included which can display signal strength and latency directly on Mio R-4s and R-3s to assist with installation and troubleshooting to determine the best location for Gateways and Repeaters.

DID YOU KNOW?

ZigBee Pro is an enhanced version of the ZigBee protocol that adds significant features and enhances many pre-existing ZigBee features. ZigBee Pro is quickly emerging as a major force in wireless home automation, advanced metering ("smart grid"), and other market areas. Utilizing ZigBee Pro allows AMX's ZigBee products to have improved performance as well as to utilize a standard that is gaining traction throughout the control and CE worlds.

SPECIFICATIONS

DIMENSIONS (HWD)
4 1/2" x 2 1/2" x 15/16" (11.43 cm x 6.35 cm x 2.38 cm)
Note: depth does not include antenna

WEIGHT
- Without Antenna: 5.6 oz (158.75 g)
- With Antenna: 6.4 oz (181.44 g)

POWER
- 10.5 - 18 VDC; (13.5 VDC nominal operation voltage)
- Power over Ethernet (PoE) Class 2

MEMORY
- 16MB of FLASH   • 16MB of SDRAM

RADIO SPECIFICATIONS
- Frequency: 2.4GHz
- Operating Channels: 11 – 26
- Modulation Technique: DSS
- Output Power: Region/country specific
- Coverage Area: 165 feet (50.2m)

FIRMWARE/SOFTWARE SPECIFICATIONS
- Management: Built-in browser-based management with User Name/Password authentication
- IP Configuration: Static IP or DHCP client (default is DHCP/Zeroconf)
- Communications: ZigBee, TCP/IP

FRONT COMPONENTS
- LEDs
  - PWR/STATUS: Blinking green LED: the device is installed and communicating properly. Power ON, but no master connection, is indicated with a solid light, Power OFF is indicated with no light.
  - LAN: Green LED: Ethernet connection is established. Blinking: indicates both sending and receiving information via Ethernet.
  - RF: Solid LED: end devices are connected; no LED: end devices not connected; LED blinks to indicate activity.
- Antenna Mount: A reverse SMA connection that supports a 2.4GHz antenna.
- ID Button: When used in conjunction with NetLinx Studio, sets the device and system numbers for the NXR-ZGW-PRO. Press and hold for approximately 30 seconds to return the NXR-ZGW-PRO to factory default settings.

REAR COMPONENTS
- Power connector : 2-pin 3.5mm captive-wire connector
- Power Over Ethernet (PoE) - Powers the device through the CAT5 cable. Both Power and Data can be transmitted simultaneous through the CAT5 cable when using the appropriate equipment.
- Ethernet Port: 10/100BaseT Modular (RJ-45) connector - connects the NXR-ZGW-PRO to your LAN.

ENVIRONMENTAL
- Operating Temperature: -30°C (-22°F) to 70°C (158°F)
- Relative Humidity: 5% to 85% non-condensing; intended for indoor use only

CERTIFICATIONS
FCC ID: CWU-NXRZGWPRO, IC: 5078B-ZGWPRO, CE, IEC-60950-1, Japan Approval, ZigBee Certified

INCLUDED ACCESSORIES
- Rubber feet, Velcro mounting strip
- 2.4GHZ, MONO, RSMA, 3.5IN, 2.0DBI Antenna (70-0012-SA)
- Power Supply (24-5791-SA)

RECOMMENDED ACCESSORIES	DESCRIPTION	PART #	PAGE #
NXR-ZRP-PRO	NetLinx ZigBee Pro Repeater	(FG5791-03)	385

NXR-ZRP-PRO

NetLinx® ZigBee Pro Repeater

(FG5791-03)

OVERVIEW

The NetLinx ZigBee Pro Repeater can be added throughout the installation to ensure a comprehensive, broad wireless coverage area with no "dead spots," or where extra coverage is needed.

COMMON APPLICATION

Ideal for increasing the wireless coverage area of ZigBee devices throughout residences or commercial buildings.

FEATURES

- Can coexist with 802.11 wireless networks without signal interference
- Supports 16 wireless channels for interference tolerance
- Provides redundant paths of communication
- Configurable to include or exclude a ZigBee device on the ZigBee network

TRAINING AVAILABLE

For important installation, configuration and programming techniques, AMX University training is available. Just visit www.amx.com/training

AMX Mio Modero R-4
Remote Control

AMX NetLinx
Zigbee Pro Repeater

AMX NetLinx
Zigbee Pro Gateway

AMX NetLinx NI-2100
Integrated Controller
(back view of controller)

SPECIFICATIONS

DIMENSIONS (HWD)
1" x 2 1/2" x 3 1/2" (2.3 cm x 6.4 cm x 8.7 cm)
Note: depth does not include antenna

WEIGHT
4 oz (113.39 g)

POWER
10.5 – 18 VDC; (13.5 VDC nominal operation voltage)

MEMORY
- 16 MB of FLASH
- 1 MB external memory

RADIO SPECIFICATIONS
- Frequency: 2.4GHz
- Operating Channels: 11 – 26
- Modulation Technique: DSS
- Output Power: Region/country specific
- Coverage Area: 165 feet (50.2m)

FIRMWARE/SOFTWARE SPECIFICATIONS
- IP Configuration: Static IP or DHCP client (default is static, 192.168.1.140)
- Communications: ZigBee, TCP/IP, The NXR-ZRP communicates with a Netlinx master via a NXR-ZGW.

FRONT COMPONENTS
- LEDs
  - PWR/STATUS: Power ON is indicated with a solid light. Power OFF is indicated with no light.
  - RF: The LED is solid when end devices are connected; end devices not connected is indicated with no LED light; the LED blinks to indicate activity.
  - ICSP: The LED is solid when ICSP connection is in place with the NetLinx master.
- Antenna Mount: A reverse SMA connection that supports a 2.4GHz antenna.
- ID Button: Press and hold for approximately 10 seconds to return the NXR-ZRP to factory default settings.

REAR COMPONENTS
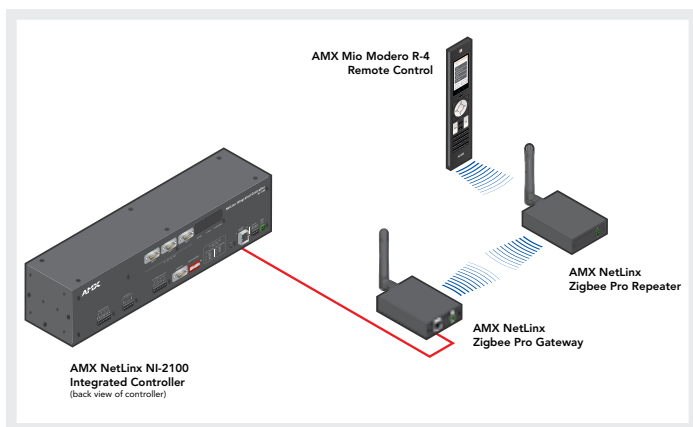- Power connector : 2-pin 3.5mm captive-wire connector

ENVIRONMENTAL
- Operating Temperature: -30°C (-22°F) to 70°C (158°F)
- Relative Humidity: 5% to 85% non-condensing; intended for indoor use only

CERTIFICATIONS
IC ID: 5088A-ZRD, CE, IEC 60590, TELEC

INCLUDED ACCESSORIES
- Rubber feet
- Velcro mounting strip
- 2.4GHZ, MONO, RSMA, 3.5IN, 2.0DBI Antenna (70-0012-SA)
- Power Supply (24-5791-SA)

NXA-ENET8PoE
Gigabit PoE Ethernet Switch

(FG2178-62)

OVERVIEW

The NXA-ENET8PoE Gigabit Ethernet Switch features 8 x 1000 Base-T ports and is designed for homes and businesses that require a managed network to efficiently handle voice, video, and data applications. Transmit both power and data through a single cable to eight remotely located Power-over-Ethernet (PoE) enabled devices such as AMX Touch Panels, Wireless Access Points, VoIP Phones and IP Surveillance cameras. And easily adjust settings to improve throughput, data prioritization and security with the user-friendly web-based management interface.

COMMON APPLICATION

NXA-ENET8PoE is a cost-effective solution that brings continuous availability, network security, and an easy management interface for customers who are looking to migrate from unmanaged to managed networks. It is perfect for homes and businesses. PoE capabilities enable one Ethernet cable to deliver both data and power devices such as AMX Touch Panels, WAPs and VoIP phones.

NOTE: The NXA-ENET8PoE is not for use with MVP-9000i docks including the MVP-TDS-9 and MVP-WDS-9.

FEATURES

- **Gigabit Ethernet Switch** – Gigabit switching capacity significantly improves the performance of a network's backbone delivering the throughput needed to support a broad range of advanced network applications and reduce file transfer times.
- **Multiple 10/100/1000 Base-T Ports** – supports three different transfer rates on the same port and auto-selects the best speed and duplex supported by both connected devices for maximum data throughput.
- **Provides Power over Ethernet** – can deliver maximum power up to 15.4W for 4 ports or 7.5W simultaneously for 8 ports over twisted pair cable up to 100 meters.
- **Simplified Set-Up** – The embedded web interface is user-friendly and enables users to quickly and simply configure the NXA-ENET8PoE.

- **Comprehensive Quality of Service** – Four queues per port enable differentiated management of up to four traffic types - traffic is prioritized providing optimal performance for real-time applications such as voice and video.
- **Enhanced Security Features** – IEEE 802.1X port-based access control ensures all users are authorized before being granted network access, plus user authentication can be managed using a RADIUS server.
- **Power Management Capabilities** – the NXA-ENET8PoE can auto-detect powered devices and power consumptions, cutting power to ports with devices that have been powered off and prioritization of ports to ensure power to important devices is retained if the power demand exceeds the maximum power supply.
- **Supports IGMP Snooping** – The NXA-ENET8PoE supports multicast video for solutions such as AMX Vision2.
- **Send Signals Extreme Distances** - The NXA-ENET8PoE can send data over fiber for distances to 70 kilometers depending on the cable type using the shared RJ-45/SFP combo port.
- **Fanless Design** – Less moving parts reduces potential failures and runs quieter.

BULLSEYE TARGET PRODUCT
This is a Target Product as defined in the U.S. BullsEye Partnership Program. Participating AMX Dealers can be rewarded for purchasing Target Products as a % of their total annual net revenue.

DID YOU KNOW?
The NXA-ENET8PoE can send data over fiber for distances of up to 70 kilometers depending on cable type using the shared Gigabit Ethernet RJ-45/SFP combo port.

TRAINING AVAILABLE
For important installation, configuration and programming techniques, AMX University training is available. Just click on the "Training" tab at **www.amx.com/products/NXA-ENET8PoE.asp**

SPECIFICATIONS

DIMENSIONS (HWD)
1.7" x 13" x 8" (4.4 cm x 33 cm x 20.3 cm)

WEIGHT
4 lbs (1.8 kg)

LED INDICATORS
• Port, Link/Activity, 1000Mbps
• PoE: Amber: PD Connected
• Amber Blinking: Data transmission

SAFETY
UL/CUL(UL60950-1, CSA60950-1), CB (IEC60950-1)

ELECTROMAGNETIC CAPABILITY
• CE Mark
• FCC Class A
• CISPR Class A

ENVIRONMENTAL SPECIFICATIONS
• Temperature:
  - IEC 68-2-14
  - 0º to 45º (Standard Operating)
  - 40º to 70º (Non-Operating)
• Humidity: 10% to 90% (Non-condensing)
• Vibration: IEC 68-2-36, IEC 68-2-6
• Shock: IEC 68-2-29
• Drop: IEC 68-2-32

ELECTRICAL
• Power Consumption: 165W maximum (full PoE load)
• Power characteristics:
  - Voltage: 100-240V
    - Frequency: 50-60Hz
    - 1.5 A
• Current:
  - 0.75 A @ 110 VAC
  - 1.5 A @ 220 VAC
• Power Over Ethernet Input Voltage: 48 V DC
• Maximum output power 70 W: 15.4 W for any four ports simultaneously port 1
  can provide 25 W
• Maximum output current per port: 350mA DC, Port 1 can reach: 565mA DC,
  Output Voltage: 44 − 57 V DC
• Maximum output current per port: 350mA DC

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387

CB-MET-ECOM

Rough-In Box for Metreau Entry Communicator

(FG039-12)

OVERVIEW
Allows Metreau Entry Communicators to be mounted directly to studs/pre-wall. Includes a wall box and mounting screws.

COMMON APPLICATION
Ideal for mounting in doorways, entryways or other locations where visitors to a residence or commercial facililty would request entry.

FEATURES
• Mounts directly to studs/pre-wall
• Includes wall box and mounting screws

SPECIFICATIONS

DIMENSIONS (HWD)
4 5/8" x 3 1/16" x 1 15/16" (11.7 cm x 7.8 cm x 4.6 cm)