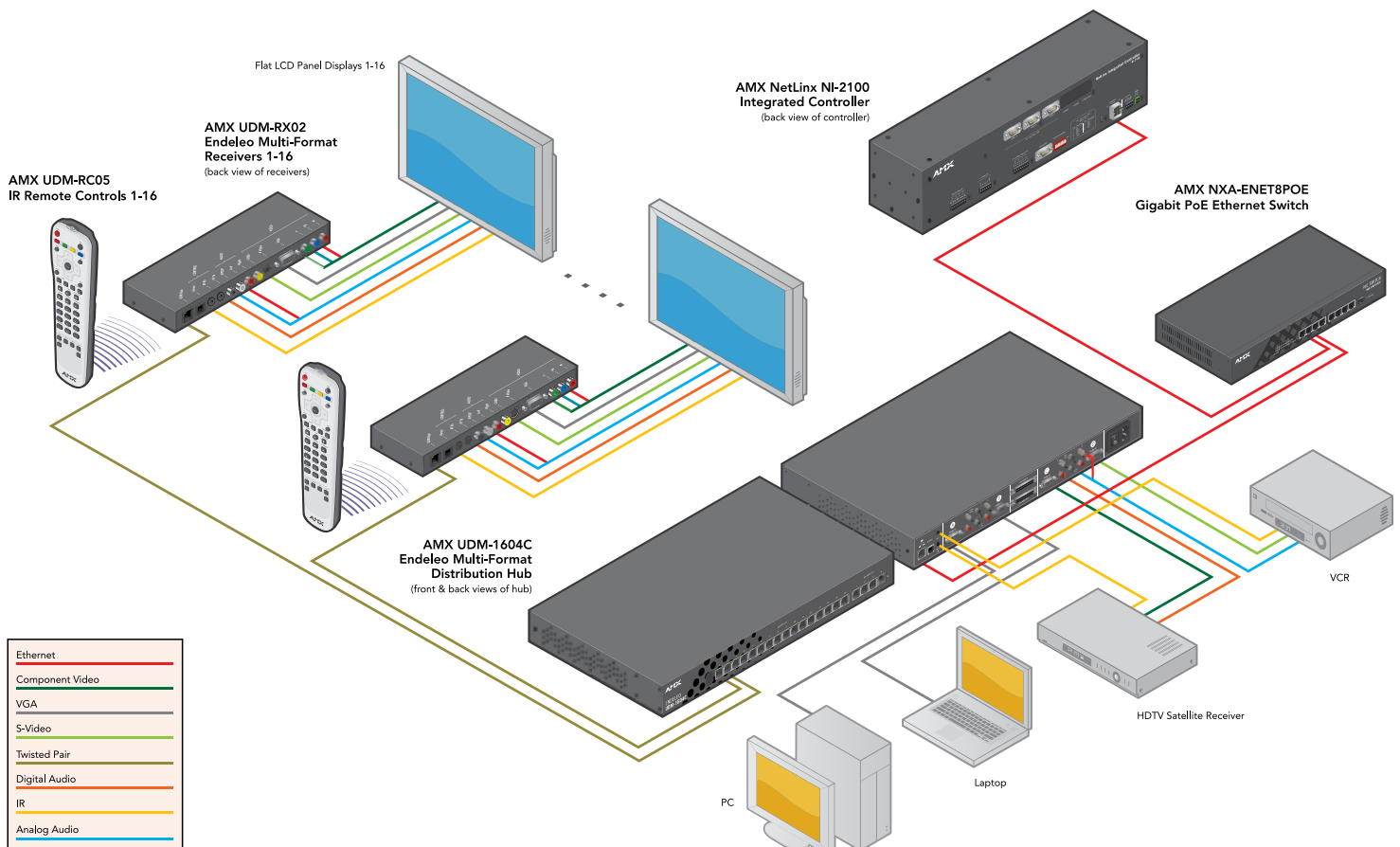


THE POWER AND THE GLORY

Send High Resolution Video, Audio and Control Over a Single Cable

Sending video, audio and control over standard twisted pair cable is easier than ever with our variety of solutions designed to route the highest analog video resolutions, at distances up to 1,000 feet utilizing this very economical, easy to install, popular cable infrastructure. Both our UDM and CatPro products feature powerful, intuitive software for gain, peak and skew adjustments making the cumbersome task of cable measurement a thing of the past.

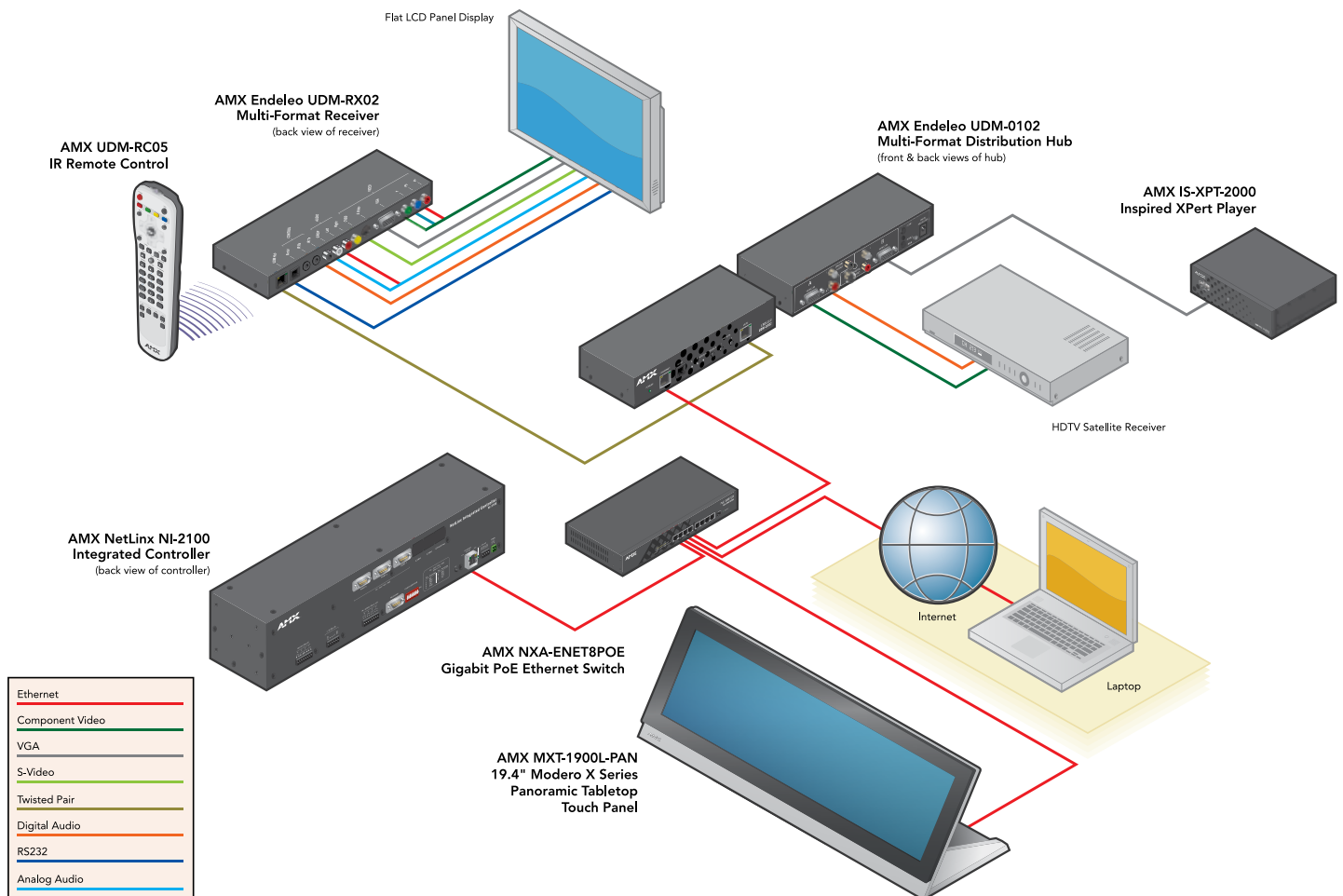
AMX Endeleo UDM multi-format distribution hubs are much more than simple signal distribution; they also incorporate control, analog audio, digital audio, multiple video formats and power over a single twisted pair. And, our latest edition, the UDM-0808-SIG features the sleek stylish design of our signature series and native NetLinX control. This robust solution is perfect for digital signage applications, entertainment venues, and residential solutions with up to eight sources and up to 32 destinations. Our CatPro line is already a trusted cornerstone in mission critical command-and-control and large scale digital signage and entertainment venues allowing up to 32 high-resolution computer video sources, along with associated audio, to be routed to 32 destinations up to 1,000 feet. Easily integrate CatPro with our NetLinX Masters and any of our user interfaces for streamlined control at the touch of a button.



**Chiarello Home Case Study**

Do you have an interesting AMX install story to tell us about? Tell us! We want to know and possibly feature your story in our marketing brochures, Web site, Newsletters and even possibly industry magazines. Please visit AMX.com today and tell us all about your story: www.amx.com/markets/installation_st.asp

SYSTEM DIAGRAM (CONT.)



HDMI-UTPRO-0808

HDMI UTPro 8x8 Matrix Switcher, Twisted Pair Distribution Kit

(FG1047-88K)



OVERVIEW

The HDMI UTPro is a true 8x8 HDMI matrix switcher that can route eight different HDMI sources, with HDCP authentication, to any or all display via a single twisted pair cable. Utilizing AMX's industry-best 10.2 Gigabit-per-second transmission, users can transmit HD video, audio, and control up to 100 meters without the need for repeaters. And unlike typical HDMI switchers, AMX HDCP InstaGate® technology allows for HDMI signal switching without delays due to HDCP re-authentication, and eliminates video stream interruption to existing HDMI signal paths. The HDMI UTPro is HDMI 1.3 compatible and can support resolutions up to 1920x1200 at 60 Hz.

COMMON APPLICATION

Whether your displays are across the room, on the other side of the house or in a classroom down the hall, your sources can be distributed to up to 8 different displays located remotely. And since UTPRO signals are carried over commonly available Unshielded Twisted Pair (UTP) cable, they are also extremely cost effective solutions to install.

FEATURES

- True 8x8 HDMI Matrix Switching allowing any input to be switched to any or all outputs
- Distribute audio, video and control up to 100 meters using a single twisted pair cable
- HDMI 1.3 Compatible
- Fully HDCP Compliant
- AMX HDCP InstaGate® Technology for low-latency switching of HDCP protected content
- HDMI Distribution over twisted pair cable
- Native NetLinx Device
- UTPro receivers include IR and serial ports for control over the display when used with a NetLinx Controller
- Supports computer video up to 1920x1200
- Supports HDTV up to 1080p

- Complete integration of Audio, Video and Control
- EDID Management

KIT INCLUDES

- 8x8 HDMI Matrix Switcher, outputs feed UTPro transport HDMI input connectors
- 8 position UTPro transport with HDMI inputs and twisted pair outputs
- 8 twisted pair receivers per system
- 8 short run HDMI cables used to feed twisted pair transport



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.



MAKING TECHNOLOGY GREEN

By consolidating matrix switching and individual distance transport solutions for each output in to a single system, along with consolidating power by sending it to receivers over UTP, we reduce overall size and demand while providing the system requirements.



WATCH THE VIDEO

See the Optima 8x8 HDMI in action, live from InfoComm 2010, by watching the video profile online at:
www.amx.com/assets/videos/HDMI.mp4



AWARD WINNER

The HDMI-UTPRO-0808 was awarded the "Innovation Award" at SATIS Expo 2010, Paris and "Best Video Distribution System - Silver Award" from SVI Trade 2011.

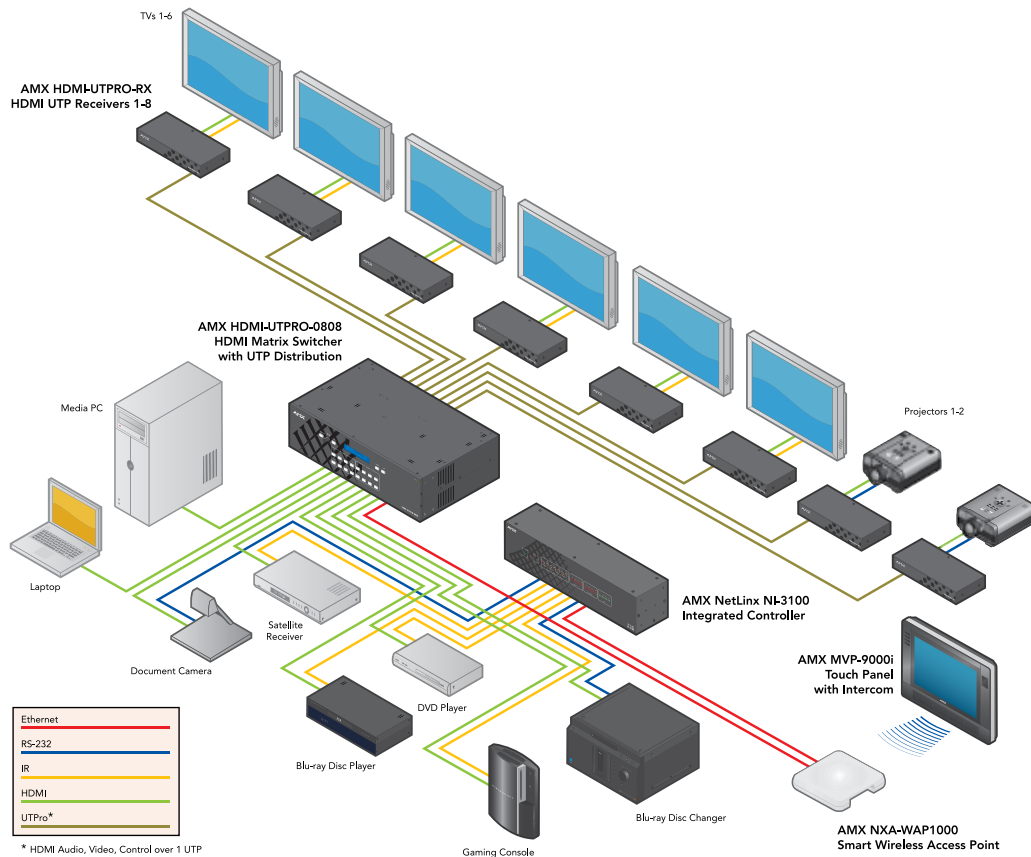
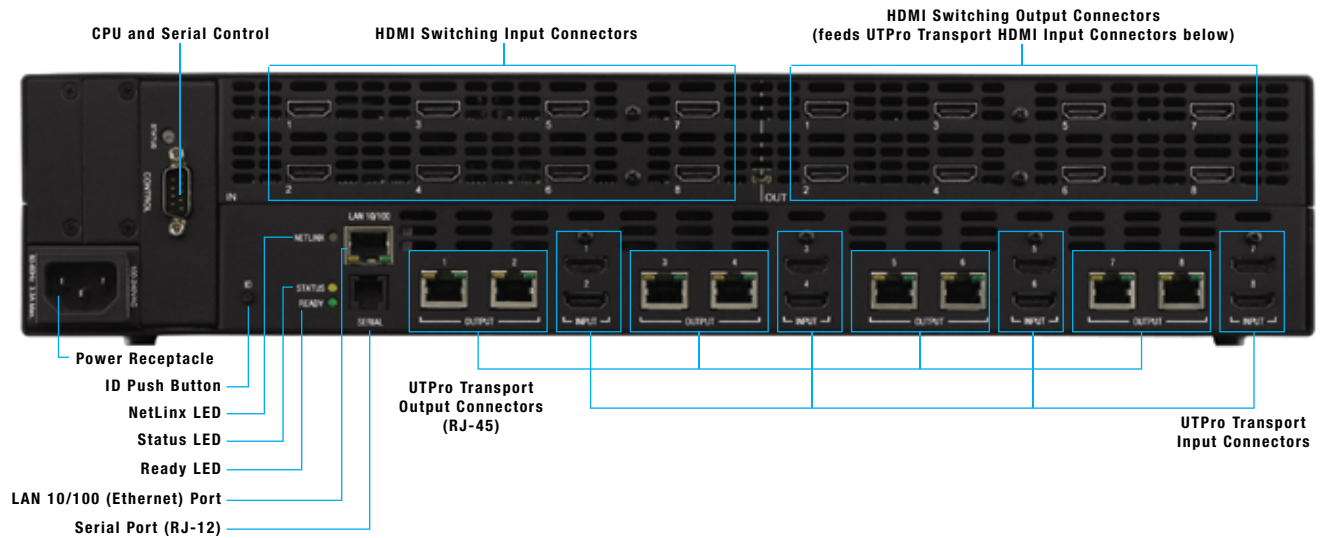


D-TOOLS CERTIFIED PRODUCT

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.



A CLOSER LOOK



ENCLOSURE SPECIFICATIONS

ENCLOSURE GENERAL

- AC Power: 100-240 VAC single phase, 50-60 Hz
- Power Consumption: 110 Watts, fully loaded
- BTU/HR: 375, fully loaded enclosure
- Operational Temperature: 32° to 113° F (0° to 45° C)
- Storage Temperature: -22° to 158° F (-30° to 70° C)
- Humidity: 0 to 90% non-condensing

ENCLOSURE DIMENSIONS (HWD) WITH RACK EARS

- 3 1/2" x 19" x 12" (8.9 cm x 48.3 cm x 30.5 cm)
- RU: 2

ENCLOSURE DIMENSIONS (HWD) WITHOUT RACK EARS

- 3 1/2" x 17 3/8" x 12" (8.9 cm x 44.2 cm x 30.5 cm)
- RU: 2

ENCLOSURE WEIGHT

Appx. 13 lbs (5.9 kg)

COMPLETE SYSTEM SHIPPING WEIGHT (ENCLOSURE AND RECEIVERS)

46 lbs (20.9 kg)

ENCLOSURE MTBF

71,000 hours

CERTIFICATIONS

- UL, cUL, CE, FCC Class A, RoHS / WEEE compliant

ENCLOSURE NETLINX AND CONTROL

- Ethernet Port:
 - Native-NetLinX Device
 - TCP/IP (LAN 10/100)
 - Serves Built-in Web Console
 - Auto MDI/MDI-X Cross-Over
 - RJ-45 Connector
- Serial Port:
 - Bidirectional RS-232
 - Baud Rate of 1200 through 115200
 - RJ-12 Connector
- Control Port (CPU):
 - Bidirectional RS-232
 - Baud Rates of 9600, 19200, 38400, 57600
 - DB-9 Connector
- ID Pushbutton: Places system in NetLinX Device ID assignment mode

RECEIVER SPECIFICATIONS

RECEIVER GENERAL

- Power Consumption: 12 Watts, fully loaded
- BTU/HR: 41, fully loaded

RECEIVER DIMENSIONS (HWD)

3 13/16" x 6" x 1" (9.7 cm x 15.2 cm x 2.5 cm)

RECEIVER WEIGHT

Appx. 1.5 lbs (0.7 kg)

RECEIVER SET MTBF

203,000 hours (combined set of 8 Rx units)

RECEIVER NETLINX AND CONTROL

- Serial Port:
 - Bidirectional RS-232
 - Baud Rate of 1200 through 115200
 - RJ-12 Connector
- IR Control (Optional):
 - Port for IR03 Receiver
 - Port for IR01 Emitter

HDMI VIDEO

- Compatible Formats: HDMI 1.3a (HDCP 1.3), DVI 1.0
- Supported Twisted Pair Cable Types: CAT 5E, CAT 6/6E, CAT6A, CAT 7, STP, FTP
- Supported Twisted Pair Cable Length: Up to 328 ft (100 m)*
- Transport Layer Throughput (max): 10.2 Gbps
- Video Data Rate (Max): 4.95 Gbps
- Video Pixel Clock (Max): 165 MHz
- Progressive Resolution Support: 480p, 576p, 720p, 1080p & 640x480 through 1920x1200 @ 60 Hz (1600x1200 @ 60Hz and higher requires reduced blanking)
- Interlaced Resolution Support: 480i, 576i, 1080i
- Audio Format Support: Dolby Digital, DTS, L-PCM, (Dolby Digital and DTS support up to 48kHz, 5.1 channels)
- Audio Resolution: 16 bit to 24 bit
- Audio Sample Rate: 32 kHz, 44.1 kHz, 48 kHz, 96 kHz**, 192kHz**
- Signal Type Support
 - HDMI
 - DVI-D (Single Link With Cable Adapter)
- DDC/EDID Support
 - EDID provided by UTPRO Enclosure
 - EDID is user programmable
- HDCP Support
 - Yes, full matrix HDCP support (includes any input to any or all outputs)
 - AMX HDCP InstaGate Technology
- CEC Support: No
- Input Voltage (Nominal): 1.0 Vpp Differential
- Output Voltage (Nominal): 1.0 Vpp Differential
- Output Re-clocking (CDR): Yes
- Output +5V DDC Pin: 50mA max per output port
- HDMI Propagation Delay: 3 uS (With 0.5m of Cat5e)
- Connectors: HDMI Type A Female
 - * Cable quality required in order to meet 100 meter distance should meet ANSI/TIA/EIA 568A-5 or better specification and be rated for 250 MHz or better.
 - ** 2 Channel L-PCM support up to 192kHz at 1080p (50,59 60Hz).
 - 2 Channel L-PCM support up to 96kHz at 720p (50,59 60Hz), 1080p (24, 25, 30, 50, 59, 60Hz), 1080i (50, 59, 60 fields).
 - 2 Channel L-PCM support up to 48kHz at all resolutions.

EDID

Standard Timing Identification:

- ID 1: 1920 x 1080 @ 60 Hz (This is the preferred timing identified in the EDID)
- ID 2: 1680 x 1050 @ 60 Hz
- ID 3: 1600 x 1200 @ 60 Hz
- ID 4: 1280 x 800 @ 60 Hz
- ID 5: 1280 x 720 @ 60 Hz
- ID 6: 1280 x 1024 @ 60 Hz
- ID 7: 1360 x 765 @ 60 Hz
- ID 8: 1440 x 900 @ 60 Hz
- ID 9: 2048 x 1152 @ 60 Hz
- ID 10: 1600 x 900 @ 60 Hz
- ID 11: 1400 x 1050 @ 60 Hz
- ID 12: 1280 x 960 @ 60 Hz

Established Timing:

- 640 x 480 @ 60 Hz, 67 Hz, 72 Hz, 75 Hz
- 800 x 600 @ 56 Hz, 60 Hz, 72 Hz, 75 Hz
- 832 x 624 @ 75 Hz
- 1024 x 768 @ 60 Hz, 70 Hz, 75 Hz, 87 Hz
- 1280 x 1024 @ 75 Hz
- 1152 x 870 @ 75 Hz

Detailed Timing Blocks:

- 1920 x 1080 @ 60Hz 148.5 MHz
- 1920 x 1080 @ 60Hz 138.5 MHz
- 1920 x 1080 @ 60Hz 141.5 MHz
- 1920 x 1200 @ 60Hz 158.25 MHz
- 1920 x 1200 @ 60Hz 154.0 MHz

CEA Video Information Code (VIC) Formats:

- VIC = 1, 640 x 480p 59.94/60 Hz 4:3
- VIC = 2, 720 x 480p 59.94/60 Hz 4:3
- VIC = 3, 720 x 480p 59.94/60 Hz 16:9
- VIC = 4, 1280 x 720p 59.94/60 Hz 16:9
- VIC = 5, 1920 x 1080i 59.94/60 Hz 16:9
- VIC = 6, 720(1440) x 480i 59.94/60 Hz 4:3
- VIC = 7, 720(1440) x 480i 59.94/60 Hz 16:9
- VIC = 14, 1440 x 480p 59.94/60 Hz 4:3
- VIC = 15, 1440 x 480p 59.94/60 Hz 16:9
- VIC = 16, Native 1920 x 1080p 59.94/60 Hz 16:9
- VIC = 17, 720 x 576p 50 Hz 4:3
- VIC = 18, 720 x 576p 50 Hz 16:9
- VIC = 19, 1280 x 720p 50 Hz 16:9
- VIC = 20, 1920 x 1080i 50 Hz 16:9
- VIC = 21, 720(1440) x 576i 50 Hz 4:3
- VIC = 22, 720(1440) x 576i 50 Hz 16:9
- VIC = 29, 1440 x 576p 50 Hz 4:3
- VIC = 30, 1440 x 576p 50 Hz 16:9
- VIC = 31, 1920 x 1080p 50 Hz 16:9
- VIC = 32, 1920 x 1080p 23.97/24 Hz 16:9
- VIC = 33, 1920 x 1080p 25 Hz 16:9
- VIC = 34, 1920 x 1080p 29.97/30 Hz 16:9
- VIC = 39, 1920 x 1080i 50Hz 16:9
- VIC = 41, 1280 x 720p 100 Hz 16:9
- VIC = 42, 720 x 576p 100 Hz 4:3
- VIC = 43, 720 x 576p 100 Hz 16:9
- VIC = 44, 720(1440) x 576i 100 Hz 4:3
- VIC = 45, 720(1440) x 576i 100 Hz 16:9
- VIC = 47, 1280 x 720p 119.88/120 Hz 16:9
- VIC = 48, 720 x 480p 119.88/120 Hz 4:3
- VIC = 49, 720 x 480p 119.88/120 Hz 16:9

Audio Data Block:

- 2 Channel L-PCM 32, 44.1, 48, 88.2, 96, 176.4 192 kHz Sampling Frequency at 16, 20 or 24 bits per sample.
- AC-3 (Dolby Digital) 6 Channels (5.1) 48 kHz Sampling Frequency
- DTS 6 Channels (5.1) 48 kHz Sampling Frequency

RECOMMENDED ACCESSORIES**DESCRIPTION****PART #****PAGE #**

IR01	IR Emitter Module	(FG-IR01)	695
IR03	External IR Receiver Module	(FG-IR03)	695
RS01	RS-232 Serial Transmit Cable, Straight Thru	(FG-RS01)	694
MIO-R1	Mio Modero R-1 Remote	(FG147)	180
UDM-RC05	Multi-Format IR Remote Control	(FG1402-70)	696

Stereo | RGBHV
Audio • Video

Modula CatPro

Pre-Engineered Matrix Switchers
RGBHV (HD-15) and Stereo,
Phoenix-style to CatPro (RJ-45)



AVS-MD-BLBL-PRO	32x32(4RU)	(FGP34-BLBL-PRO)
AVS-MD-BLGB-PRO	32x16(4RU)	(FGP34-BLGB-PRO)
AVS-MD-GBBL-PRO	16x32(4RU)	(FGP34-GBBL-PRO)
AVS-MD-DGDG-PRO	8+16x8+16(4RU)	(FGP34-DGDG-PRO)
AVS-MD-DDDD-PRO	8+8x8+8(4RU)	(FGP34-DDDD-PRO)

OVERVIEW

The Modula CatPro Series was designed to receive, route, and transmit uncompressed RGBHV + stereo over twisted pair without worrying about exact cable measurements or readjusting gain, peak, and skew when routing signal paths of various lengths. Once your system is set up, there is no need to readjust when switching between sources and devices that have different distance runs. Our intuitive CatPro Software Wizard allows for simple adjustment of gain, peak and skew on every Cat5 input received. This brings all signals back to a distance of zero -- ready to be sent to any destination device without the hassle of readjustment. Pair the Modula CatPro with the AutoPatch CatPro Transmitter/Receiver boxes for the ultimate flexibility when combining local and/ or long distance source devices with local and/or long distance destination devices.

COMMON APPLICATION

Perfect for a number of commercial applications including schools, universities, hospitals and presentation facilities that need to receive, route and transmit uncompressed RGBHV + stereo signals over twisted pair with distances of up to 1,000 feet.

FEATURES

- Integrated CatPro Technology to receive, route and transmit RGBHV and stereo over twisted pair
- Transmit high-resolution RGBHV / 1600x1200 (4:3) and 1920x1080p (16:9) @ 60 Hz up to 1000 feet over twisted pair
- CatPro Wizard provides a quick and easy software application for gain, peak and skew adjustments on each CatPro (RJ-45) RX board



- Intuitive gain, peak and skew adjustments at the touch of a button at each destination via CatPro RX
- 2 Standard RS-232 control ports
- Free upgrade to a lifetime warranty
- Superior video crosstalk specifications ensure signal isolation and security
- Local and global presets



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.



HELPFUL HINT

Make precise gain, peak and skew adjustments in seconds. Each receiver features a simple dial, and LED indicator for simple skew adjustments. A push of the dial and the LED illuminates with the color activated for adjustment (red, green, or blue). And, white indicates stereo audio volume control. Gain and peak adjustments are also simple via external potentiometers.



TRAINING AVAILABLE

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



CatPro

Integrated CatPro Technology brings professional audiovisual quality and twisted pair together by transmitting RGBHV at resolutions up to 1600x1200, providing intuitive digital gain, peak and skew adjustments at every receipt point within the system (up to 62 ns in 2 ns increments), while including true left / right stereo audio on the same cable.

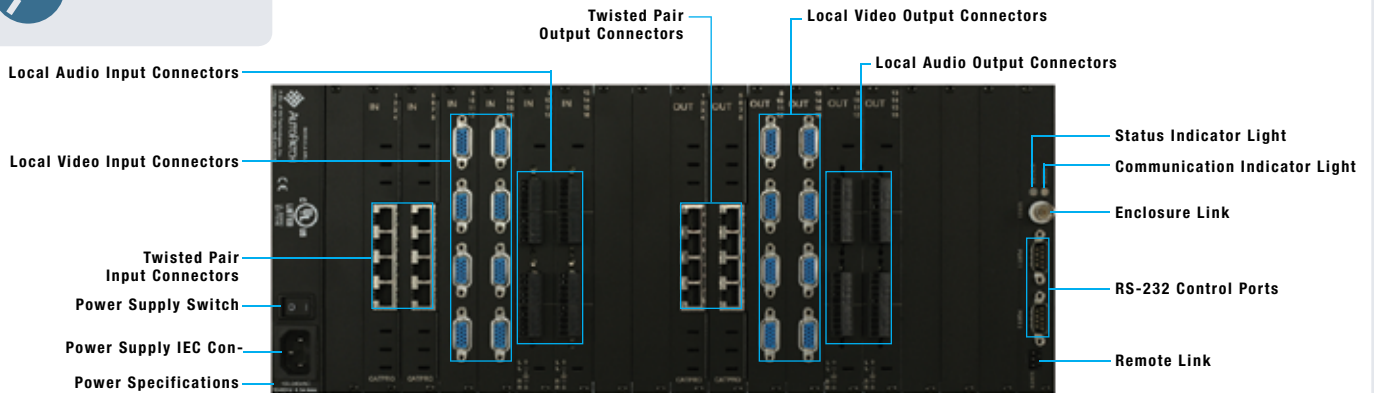


D-TOOLS CERTIFIED PRODUCT

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.



A CLOSER LOOK



SPECIFICATIONS

GENERAL

- AC Power: 100-240 VAC 50-60 Hz
- Power Consumption (Max): 520 Watts
- Power Consumption (Typ): 255 Watts, fully loaded enclosure
- BTU/hr (Max): 1774
- BTU/hr (Typ): 870, fully loaded enclosure
- Operational Temperature: 32° to 110° F (0° to 43° C)
- Humidity: 0 to 90% non-condensing

DIMENSIONS (WITH RACK EARS)

7" x 19" x 17" (17.8 cm x 48.3 cm x 43.2 cm)

DIMENSIONS (WITHOUT RACK EARS)

- 7" x 17 3/8" x 17" (17.8 cm x 44.2 cm x 43.2 cm)
- RU: 4

WEIGHT

Appx 22-24 lbs (9.98-10.88 kg) per loaded enclosure

MTBF

88,000 hours

CERTIFICATIONS

CE, UL, cUL, RoHS/WEEE compliant

CATPRO RGBHV + STEREO (RJ-45)

- Signal Types: RGBHV + stereo audio. All specs are defined for use in conjunction with a CatPro Transmitter and Receiver
- Maximum Resolution: 1600x1200 (4:3) and 1920x1080p (16:9) @ 60 Hz up to 1000 ft. Overall transmission distance including input and output cannot exceed 1000 ft. from source to destination.
- RGB In Signal Level Range (Max): +0.75 V to -0.3 V Typ (terminated, user adjustable with gain and peak using CatPro Wizard)
- RGB Out Signal Level Range (Max): +0.75 V to -0.3 V Typ (terminated, user adjustable with gain and peak using CatPro Receiver)
- RGB In Skew Adjustment: 0 to 62 nS, in 2 nS increments on RGB channels (user adjustable using CatPro Wizard)
- RGB Out Skew Adjustment: 0 to 62 nS, in 2 nS increments on RGB channels (user adjustable using CatPro Receiver)
- RGB In/Out Impedance: 75 Ohms
- RGB SNR: >50 dB
- RGB Crosstalk: <-50 (f=5 MHz), <-35 (f=30 MHz)
- Sync In Impedance: 510 Ohms
- Sync In/Out Polarity: Active High or Low (output follows input polarity)
- Sync Out Signal Levels: Low = 0 V, High = +5 V (unterminated)

- Audio In/Out Signal Type: Stereo, Unbalanced
 - Audio In/Out Signal Level (Max): +8 dBu
 - Audio In Impedance: 2 kOhms
 - Audio Output Impedance: <5 Ohms
 - Audio Frequency Response: ± 0.2 dB, 20 Hz to 20 kHz
 - Audio THD+N: <0.04 %, 1 kHz, -10 dBu to +4 dBu
 - Audio Crosstalk: <-98 dB (1 kHz, Vin = +4 dBu)
 - Audio SNR: >83 dB, 20 Hz to 20 kHz Vin = +4 dBu
 - Audio Out Volume Adj. Range: +6 dB to Mute (user adjustable at CatPro Receiver)
 - RGBHV + Stereo In/Out Connector: Female RJ-45
 - Compatible Cable Types: Category Cable 5, 5e, 6, 6e, and STP*
- *All measurements were taken using Cat5e Cable

CATPRO RGBHV (HD-15)

- Input/Output Level (Max): +0.75 V to -0.3 V
- I/O Impedance: 75 Ohms
- Maximum Resolution: 1600x1200(4:3) and 1920x1080p(16:9) @ 60 Hz up to 1000 ft (Cat5)
- Crosstalk: <-50 (f = 5 MHz), <-35 (f = 30 MHz), <-30 (f = 150 MHz)
- Signal to Noise Ratio: >60 dB (Vin = 0.7 V, 100 IRE)
- Sync I/O Level: TTL
- Compatibility: These boards can be used to break into and out of the CatPro RGBHV + Stereo boards
- Connectors: HD-15

CATPRO STEREO AUDIO (PHOENIX-STYLE)

- Input Level (Max): +8 dBu, balanced
- Input Impedance: 18 kOhms
- Output Level (Max): +8 dBu, balanced
- Output Impedance: 50 Ohms
- Frequency Response: ± 0.25 dB (20 Hz to 20 kHz)
- THD + Noise: <0.06% (1 kHz, -10 dBu to +4 dBu)
- Crosstalk: <-95 dB (1 kHz, Vin = +4 dBu)
- Signal to Noise Ratio: >80 dB (20 Hz to 20 kHz, Vin = +4 dBu)
- Input Gain Adj. Range: +6 dB to -6 dB, via potentiometer
- Output Volume Adj. Range: +10 dB to -70 dB (muted), via software / control panel
- Connectors: 5T
- Compatibility: These boards can be used to break into and out of the CatPro RGBHV + Stereo boards

Stereo | RGBHV

Audio • Video

Optima Pre-Engineered Matrix Switchers

RGBHV Video + Stereo Audio to CatPro

AVS-OP-CBBD-PRO 4x8 (2RU) (FGP46-CBBD-PRO)

AVS-OP-DBBD-PRO 8x8 (2RU) (FGP46-DBBD-PRO)



OVERVIEW

Integrate routing and transmission of RGBHV + stereo over twisted pair, eliminating the need for external transmission devices. With the ability to maintain resolutions up to 1600x1200 or 1920x1080 @ 60 Hz even at distances of up to 1,000 feet, you don't have to compromise video quality to run long distances.

COMMON APPLICATION

Ideal for any small application sending local computer video to long distance outputs, such as lobby areas, education, portable command-and-control, or museum kiosk areas

FEATURES

- Integrated CatPro Technology to route and transmit RGBHV and stereo over twisted pair
- Easily supports the highest analog video bandwidth requirements on the market
- Intuitive gain, peak and skew adjustments at the touch of a button at each destination via CatPro RX
- Output volume control at each destination via CatPro RX
- Superior video crosstalk specifications ensure signal isolation and security
- Standard RS-232 control port supports BCS commands
- Optional TCP/IP control via external APWeb module
- Includes intuitive CP-15 front mounted control panel featuring LED backlit LCD and blue light buttons, allowing quick and easy access to execute many commands including status, change, disconnect, local presets, global presets, front panel lock and unlock, and more
- Front panel security lockout
- Backed by our AMX 3 year warranty
- Local presets allow quick recall of a pre-programmed set of switches with a single command; multiple presets can exist within a system at the same time
- Global presets allow quick recall of a comprehensive snapshot of all switches and digital volume controls



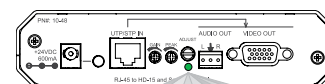
BULLSEYE TARGET PRODUCT

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HELPFUL HINT

Make precise gain, peak and skew adjustments in seconds. Each receiver features a simple dial and LED indicator for simple skew adjustments. A push of the dial and the LED illuminates with the color activated for adjustment (red, green, or blue). And, white indicates stereo audio volume control. Gain and peak adjustments are also simple via external potentiometers.



Shown here:
CatPro RGBHV + Stereo Receiver



TRAINING AVAILABLE

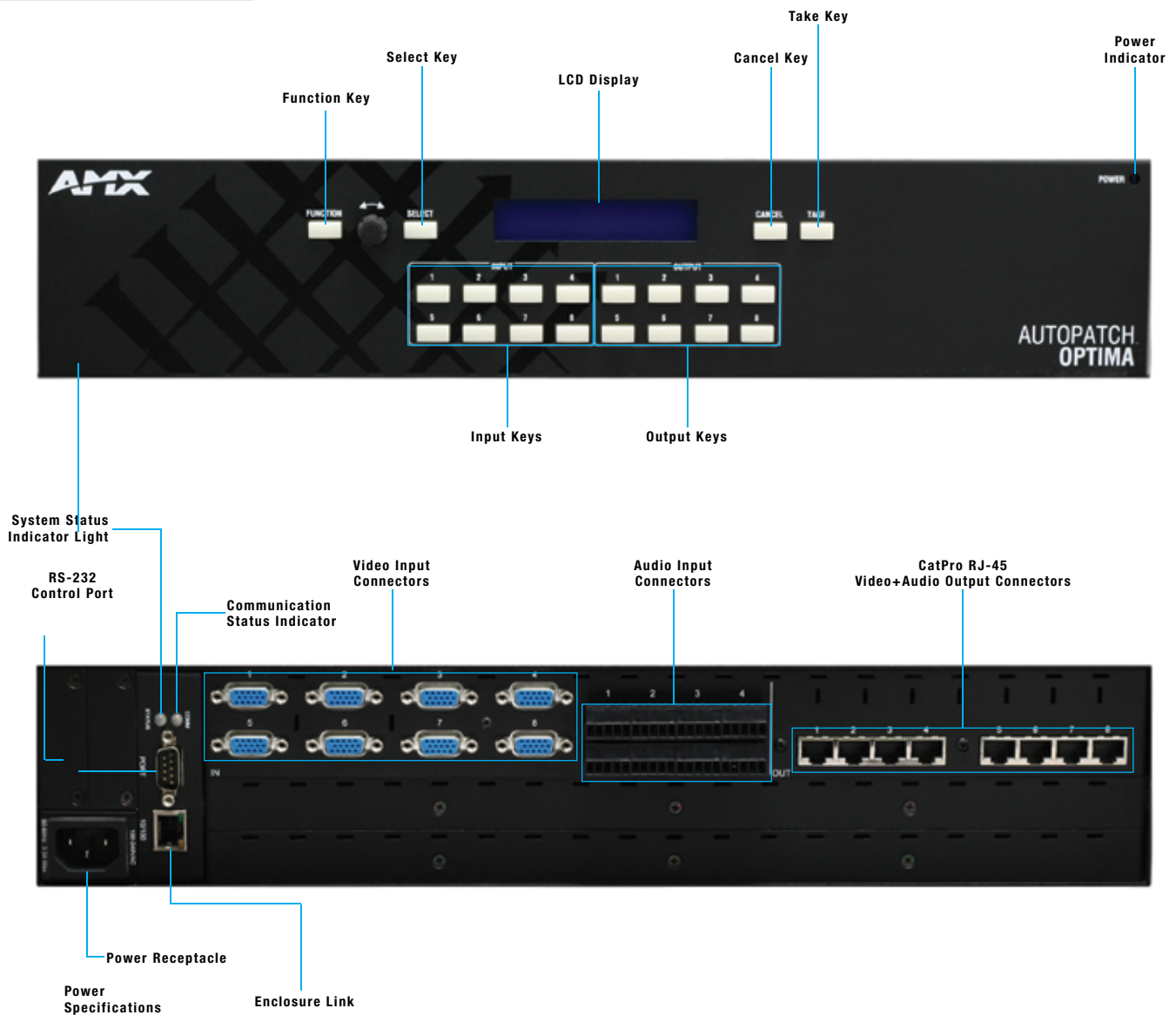
For important installation, configuration and programming techniques, AMX University training is available. Just visit www.amx.com/training

**CatPro**

Integrated CatPro Technology brings professional audiovisual quality and twisted pair together by transmitting RGBHV at resolutions up to 1600x1200, providing intuitive digital gain, peak and skew adjustments at every receipt point within the system (up to 62 ns in 2 ns increments), while including true left / right stereo audio on the same cable.

**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.

**A CLOSER LOOK**

SPECIFICATIONS

All Specs are defined for use in conjunction with a CatPro Receiver

GENERAL

- AC Power: 100-240 VAC single phase, 50-60 Hz
- Power Consumption (Max): 260 Watts
- Power Consumption (Typ): 110 Watts, fully loaded enclosure
- BTU/hr (Max): 887
- BTU/hr (Typ): 375, fully loaded enclosure
- Operational Temperature: 32° to 110° F (0° to 43° C)
- Storage Temperature: -22° to 158° F (-30° to 70° C)
- Humidity: 0 to 90% non-condensing

DIMENSIONS (WITH RACK EARS)

3 1/2" x 19" x 12" (8.9 cm x 48.3 cm x 30.5 cm)

DIMENSIONS (WITHOUT RACK EARS)

- 3 1/2" x 17 3/8" x 12" (8.9 cm x 44.2 cm x 30.5 cm)
- RU: 2

WEIGHT

Appx. 10 lbs (4.54 kg) per loaded enclosure

MTBF

92,000 hours

CERTIFICATIONS

CE, UL, cUL, RoHS/WEEE compliant

RGBHV + STEREO (IN) TO CATPRO (OUT)*

- Signal Types:
 - Input: RGBHV + Stereo Audio (HD-15 & 5T)
 - Output: CatPro RGBHV + Stereo Audio (RJ-45)
- Maximum Resolution: 1600x1200(4:3) and 1920x1080p(16:9) @ 60 Hz up to 1000 ft
- RGB In Signal Level Range (Max): +0.75 V to -0.3 V Typ (terminated)
- RGB Out Signal Level Range (Max): +0.75 V to -0.3 V Typ (terminated, user adjustable with gain and peak using CatPro Receiver)
- RGB Out Skew Adjustment: 0 to 62 ns, in 2 ns increments on RGB channels (user adjustable using CatPro Receiver)
- RGB In/Out Impedance: 75 Ohms
- RGB SNR: >50 dB (Vin = 0.7 V, 100 IRE)
- RGB Crosstalk: <-60 dB (f = 5 MHz), <-45 dB (f = 30 MHz)
- Sync In Impedance: 2.2 kOhms
- Sync In/Out Polarity: Active High or Low (output follows input polarity)
- Sync Out Signal Levels: Low = 0 V, High = +5 V (unterminated)
- Audio In/Out Signal Type: Stereo, Balanced or Unbalanced In / Unbalanced Out
- Audio In/Out Signal Level (Max): +8 dBu
- Audio In Impedance: 18 kOhms
- Audio Output Impedance: <5 Ohms
- Audio Frequency Response: <±0.3 dB, 20 Hz to 20 kHz
- Audio THD+N: <0.04 %, 1 kHz, -10 dBu to +4 dBu

- Audio Crosstalk: <-95 dB (1 kHz, Vin = +4 dBu)
- Audio SNR: >85 dB, 20 Hz to 20 kHz Vin = +8 dBu
- Audio Out Volume Adj. Range: Mute to +6 dB (user adjustable at CatPro Receiver)
- RGBHV Input Connector: Female HD-15
- Stereo Audio Input Connector: 5T
- RGBHV + Stereo Output Connector: Female RJ-45
- Compatible Cable Types: Category Cable 5, 5e, 6, 6e, UTP, and STP. All measurements were taken using Cat5e Cable

UDM-1604C

4x16 Multi-Format Distribution Hub

(FG-UDM-1604C)



OVERVIEW

The UDM-1604C Multi-format Distribution Hub delivers any video source, including Composite, Component, S-Video, and RGBHV to up to 64 display devices. It supports 4 high resolution input ports and 16 UDM output ports.

COMMON APPLICATION

Ideal for commercial applications such as retail or digital signage applications that require delivery of up to 4 video sources to up to 16 displays.

FEATURES

- 4 multi-format inputs (plus 4 CVBS inputs) x 16 outputs
- Supports Composite, S-Video, Component, RGBHV
- Transmit signals up to 1000 feet (300m) over a single twisted pair cable
- Digital audio support
- Central device control
- Compatible with TVM-1600



BULLSEYE TARGET PRODUCT

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TRAINING AVAILABLE

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



READ ABOUT IT:

UDM Universal Distribution Matrix FAQ White Paper We invite you to learn more about the capabilities of universal distribution in the white paper: "UDM Universal Distribution Matrix FAQ" which can be found at: www.amx.com/assets/whitePapers/AMX.Endeleo.UDM.FAQ.pdf



AWARD WINNER

2007 Most Innovative Video Switching Product

Systems Contractor News awarded the Endeleo UDM-1604 Multi-Format Distribution Hub with its "Most Innovative Video Switching Product". The SCN Installation Product Awards honor outstanding install-specific products that were introduced in 2006.



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.

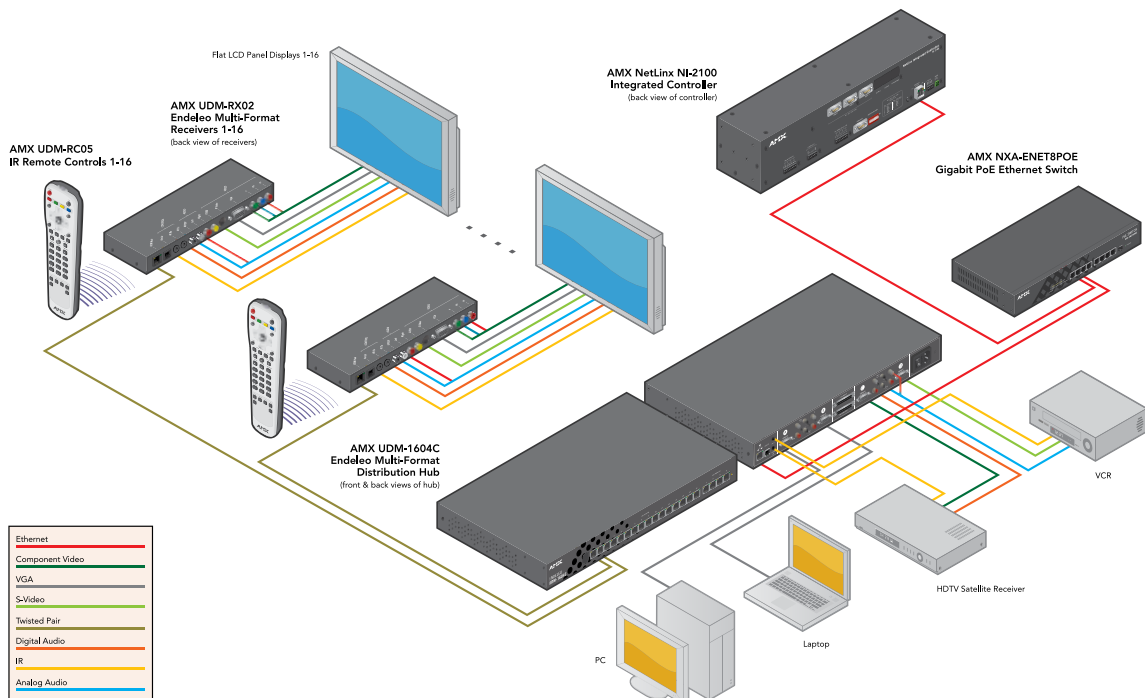
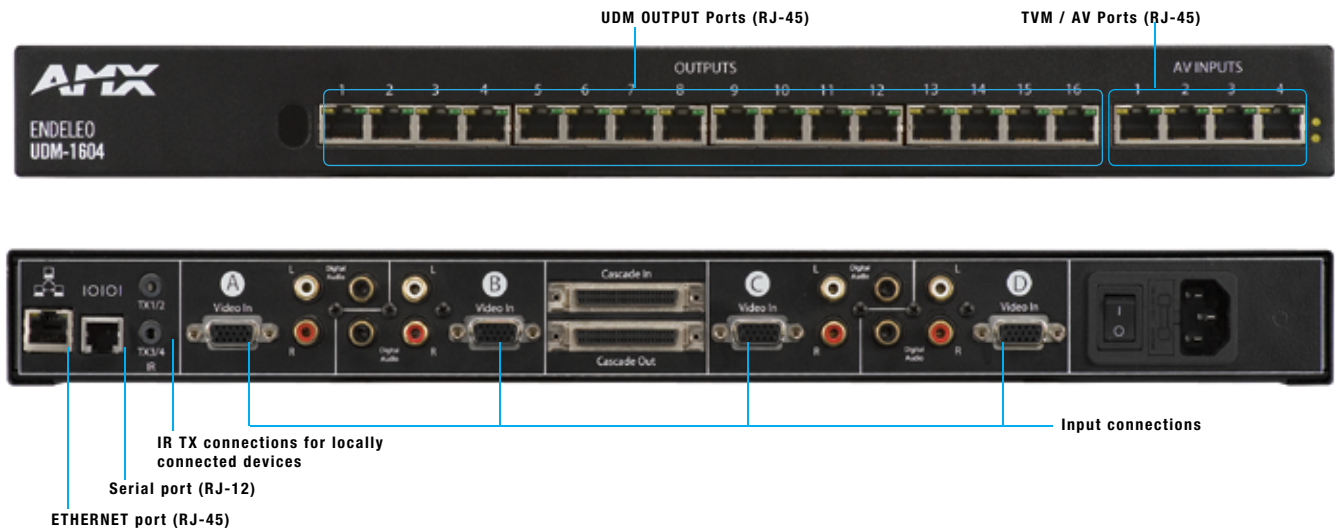


COUNTRY OF ORIGIN: UNITED STATES

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)

- 1 3/4" x 19" x 12 1/2" (4.5 cm x 44 cm x 32 cm)
- RU: 1

WEIGHT

8.8 lbs (4 kg)

POWER

90-264v AC140 W (3 PIN IEC)

FRONT PANEL COMPONENTS

- IR Sensor: Infrared receiver port (IRRX) for learning IR remote control functions from IR controlled devices
- Outputs: 16 RJ-45 ports for connection with compatible UDM-RX02 Receivers
- AV Inputs: 4 RJ-45 ports for connection from Endeleo TVM hubs (via Cat5, Cat5e or Cat6)

REAR PANEL COMPONENTS

- Network Port: RJ-12 10baseT network port provides network connectivity
- Serial Port: RJ-12 port allows an administrator to control various functions from a command line prompt
- IRTX Ports: 2 Infrared Transmit (IRTX) ports allow the UDM Hub to control IR devices via IR emitters attached to the UDM. The IR cable is attached to the IR panel of the controlled device to receive IR commands issued through the software or remote control.
- Input Connectors (A-D): 4 sets of Input connections for up to 4 AV inputs with the following connectors:
 - Video
 - Audio Left
 - Audio Right
 - S/PDIF
- Cascade IN/OUT Ports: These ports allow UDM Hubs to be cascaded together.
- Cascade In Port (from another UDM Hub)
- Cascade Out Port (to another UDM Hub)
- IEC Power Connector: Universal switch-mode power supply.
 - As a Class 1 appliance the Hub should be connected to a mains supply with a protective earthing connection.
 - The Power On/Off switch is located beside the IEC power connector.

Note: The rating label found to the bottom left of the hub, beneath the IEC connector, contains important information applicable to the Hub's installation environment.

NETWORK INTERFACE

10baseT

SERIAL INTERFACE

9600,8,N,1

MAX VIDEO INPUT

- 4 x RGBHV (or)
- 4 x S-Video (or)
- 12 x Composite (plus)
- 4 x Endeleo TVM-1600 or CVBS

CASCADE PORT

Matrix connector for tertiary units

ELECTRICAL

RJ-45 indicating power to receiver and link status

CERTIFICATIONS

CE,UL,FCC part 15 Class A

ENVIRONMENTAL

- 35°F to 95°F (5°C to 35°C)
- Max. relative humidity - 85% (non-condensing)

INCLUDED ACCESSORIES

- IEC power cord
- 19" mounting brackets
- RS-232 DB-9/RJ-12 connection cable (FG-RS01)
- 6' Ethernet Crossover Cable
- IR03 External Infrared Receiver Module (FG-IR03)
- UDM-RC10 IR Engineering Remote Control (FG-UDM-RC10)

Note: No AV interface cables supplied

RECOMMENDED ACCESSORIES

DESCRIPTION

PART

PAGE

UDM-RX02	Multi-Format Receiver	(FG-UDM-RX02)	687
RS01	RS-232 Serial Transmit Cable	(FG-RS01)	694
IR01	IR Emitter Module	(FG-IR01)	695
IR03	External IR Receiver Module	(FG-IR03)	695
UDM-RC05	Multi-Format IR Remote Control	(FG-UDM-RC05)	696
UDM-EXP02	Multi-Format 50 Pin Hub Cascade Cable	(FG1402-71)	696
CC-HD15M-RCA3M	Multi-Format HD-15 to 3x RCA Breakout Cable	(FG10-2170-03)	697
CC-HD15M-SVIDM	Multi-Format HD-15 to S-Video Breakout Cable	(FG10-2170-04)	697

UDM-0808-SIG

Signature Series 8x8 Multi-Format Distribution Hub

(FG1402-01)



OVERVIEW

The Signature Series UDM-0808-SIG Multi-format Distribution Hub, when combined with any NetLinx Central Controller, delivers Composite, Component, S-Video, and RGB/VGA to up to 32 display devices plus source device control and touch panel control of the content and display devices.

COMMON APPLICATION

Ideal for residential applications as a companion to the NI-3101-SIG Signature Series NetLinx Controller or the Tango Audio Controller as all three components share the same elegant finish and mirror matched showroom styling. Paired with any NetLinx Central Controller, this is an ideal solution for high quality whole home AV distribution of up to eight sources to up to eight displays.

FEATURES

- 8 multi-format inputs x 8 outputs
- Supports Composite, S-Video, Component, RGBHV
- Distribute multi-zone HD in conjunction with stereo and/or digital audio
- Cascade up to four UDM-0808-SIG hubs to support up to 32 outputs
- Transmit signals up to 1000 feet (300m) over a single twisted pair cable
- Appears in NetLinx Studio as a NetLinx device
- Requires integration with any NetLinx Central Controller



BULLSEYE TARGET PRODUCT

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TRAINING AVAILABLE

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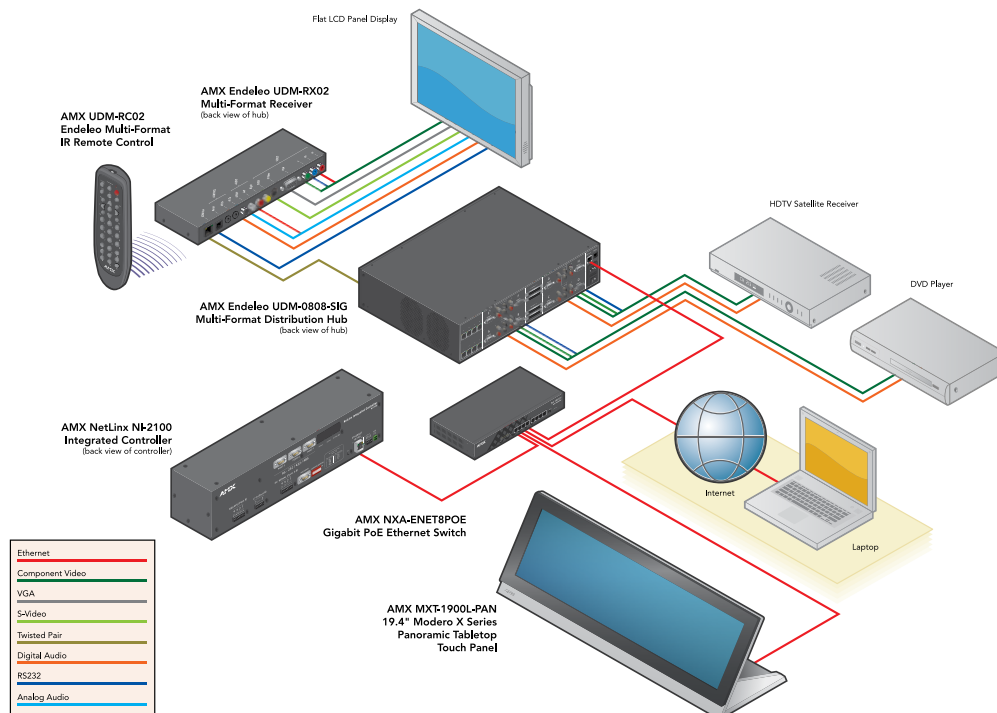
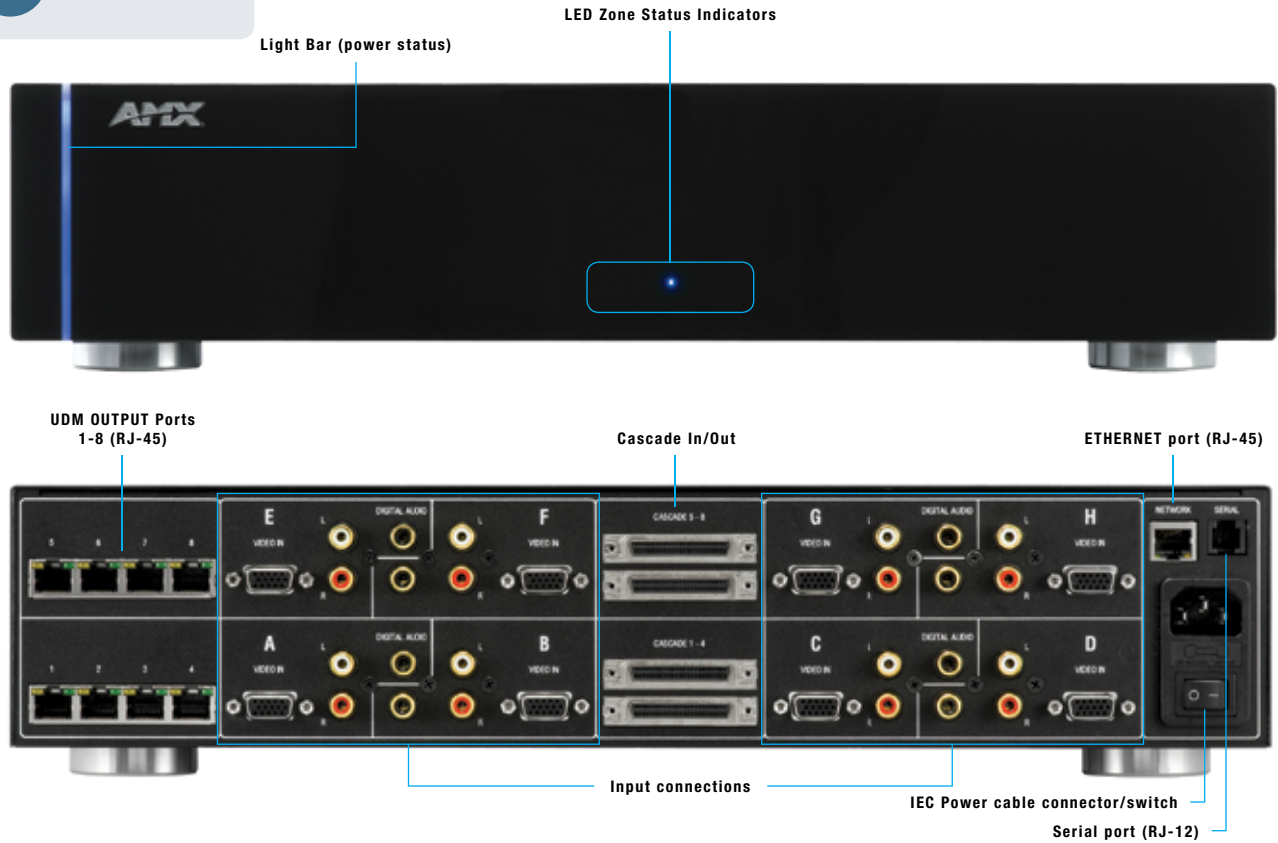


COUNTRY OF ORIGIN: UNITED STATES

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A CLOSER LOOK



SPECIFICATIONS

DIMENSIONS (HWD)

- 3 1/2" x 19" x 12 1/2" (88.9 cm x 44 cm x 32 cm)
- RU: 2

WEIGHT

13.6 lb (16.17 kg)

POWER

- 3 PIN IEC, 100 to 240 VAC 50/60 Hz
- Dissipation: 130 W

FRONT PANEL COMPONENTS

- LEDs
 - Power Status bar - Blue light bar on front panel indicates unit is powered
 - Status LEDs - Eight blue LEDs light to indicate which of the eight outputs are currently routing video to a connected UDM-RX02N Receiver

REAR PANEL COMPONENTS

- UDM Output Ports: provide connectivity to up to 8 UDM-RX02N receivers via Cat5/5e/6/7
- Input Connectors (A-H): Eight sets of Input connections for up to 8 AV inputs with the following connectors:
 - Video
 - Analog audio Left / Right
 - S/PDIF digital audio
- Video Inputs: HD-15 female connector supports the following formats:
 - VGA
 - Component - requires an UDM-HD15RCA3 Breakout Cable (FG-HD15RCA3, not included)
 - S-Video- requires an UDM-SVID01 HD15 to S-Video Cable (FG-UDM-SVID01, not included)
 - Composite - requires an UDM-HD15RCA3 Breakout Cable (FG-HD15RCA3, not included)
- Max Video Input:
 - 8 x RGBHV (or)
 - 8 x S-Video (or)
 - 8 x Component (or)
 - 8 x Composite Inputs
- Audio Inputs:
 - Analog Audio In - RCA female analog audio connectors (white = Left, red = Right)
 - S/PDIF Audio In - RCA female digital audio connector (black)
- Network Port: RJ-45 Ethernet port provides 10baseT network connectivity
- Serial Port: RJ-12 port allows an administrator to receive debugging and diagnostic information via RS-232

NOTE: Serial Interface: 115200, 8, N, 1

- Cascade In/Out: 1-4/5-8:

- Cascade Out and In ports send and receive cascaded AV signals to other UDM-0808-SIG Hubs
- The Cascade Out ports can also provide audio-only to a UDM-ABB-8-SIG Audio Breakout Box

NOTE: Depending on the application, up to four Hubs can be cascaded together.

- IEC Power Connector: Universal switch-mode power supply
 - As a Class 1 appliance the Hub should be connected to a mains supply with a protective earthing connection
 - The On/Off switch is located beside the power connector

NOTE: The rating label found on the bottom left of the rear panel (beneath the IEC connector) contains important information applicable to the Hub's installation environment.

CERTIFICATIONS

CE, FCC Part 15 Class A

ENVIRONMENTAL

- 35°F to 95°F (5°C to 35°C)
- Max. relative humidity - 85% (non-condensing)

INCLUDED ACCESSORIES

- IEC power cord
- 19" mounting brackets
- UDM-RC05 IR Remote Control (FG1402-70)
- IR03 External Infrared Receiver Module (FG-IR03)

Note: No AV interface cables supplied

RECOMMENDED ACCESSORIES

DESCRIPTION

PART

PAGE

UDM-RX02N	Multi-Format Receiver	(FG1402-20)	690
UDM-ABB-8-SIG	Audio Breakout Box	(FG1402-60)	692
RS01	RS-232 Serial Transmit Cable	(FG-RS01)	694
IR01	IR Emitter Module	(FG-IR01)	695
IR03	External IR Receiver Module	(FG-IR03)	695
UDM-RC05	Multi-Format IR Remote Control	(FG1402-70)	696
UDM-EXP02	Multi-Format 50 Pin Hub Cascade Cable	(FG1402-71)	696
CC-HD15M-RCA3M	Multi-Format HD-15 to 3x RCA Breakout Cable	(FG10-2170-03)	697
CC-HD15M-SVIDM	Multi-Format HD-15 to S-Video Breakout Cable	(FG10-2170-04)	

UDM-0808-SIG-8RX02N

UDM-0808 Distribution Hub and UDM-RX02N Receiver Kit

(FG1402-01K)



OVERVIEW

The UDM-0808-SIG-8RX02N combines the UDM-0808-SIG Multi-Format Distribution Hub and eight UDM-RX02N Receivers.

The Signature Series UDM-0808-SIG Multi-format Distribution Hub delivers any video source, including Composite, Component, S-Video, and RGB/VGA to up to 32 display devices. Installed at the display device, the UDM-RX02N converts the signal received from the UDM-0808-SIG Multi-Format Distribution Hub to standard audio/video signals. In addition, the UDM-RX02N supports AMX IR(.irl) files, making this a native NetLinX device for control.

COMMON APPLICATION

Perfect for a variety of sources such as HDTV Satellite tuners, Blu-Ray DVD players and PCs just to name a few to be displayed in rooms throughout a residence or in classrooms, conference rooms presentation rooms or other commercial applications.

KIT INCLUDES

- (1) UDM-0808-SIG: Multi-Format Distribution Hub
- (8) UDM-RX02N: Multi-Format Receivers



BULLSEYE TARGET PRODUCT

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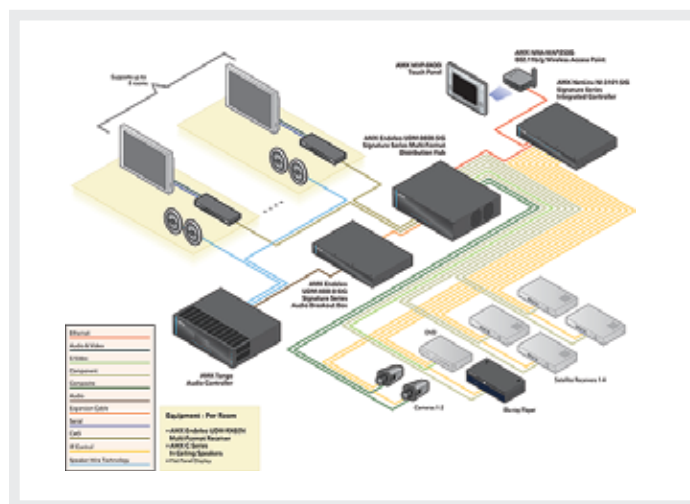
TRAINING AVAILABLE

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READ MORE ABOUT IT

We invite you to learn more about the capabilities of universal distribution in the white paper: www.amx.com/assets/whitePapers/AMX.Endeleo.UDM.FAQ.pdf



RECOMMENDED ACCESSORIES

DESCRIPTION

PART

PAGE

RS01	RS-232 Serial Transmit Cable	(FG-RS01)	694
IR01	IR Emitter Module	(FG-IR01)	695
IR03	External IR Receiver Module	(FG-IR03)	695
UDM-RC05	Multi-Format IR Remote Control	(FG1402-70)	696
UDM-EXP02	Multi-Format 50 Pin Hub Cascade Cable	(FG1402-71)	696

UDM-0404

4x4 Multi-Format Distribution Hub

(FG-UDM-0404)



OVERVIEW

The UDM-0404 Multi-format Distribution Hub delivers any video source, including Composite, S-Video, Component and RGBHV to up to 4 display devices. The UDM-0404 supports 4 high-resolution input ports and 4 UDM output ports.

COMMON APPLICATION

Ideal for commercial applications such as retail or digital signage applications that require delivery of four video sources to four displays.

FEATURES

- 4 multi-format inputs x 4 outputs
- Digital audio and analog audio support
- Distribute multi-zone HD signals
- Transmit signals up to 1000 feet (300m) over a single twisted pair cable
- Central device control
- 1 RU rack-mounting



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WATCH THE VIDEO

We invite you to watch a product profile video for the UDM-0404 Multi-Format Distribution Hub. Just visit www.amx.com/assets/videos/UDM-0404.mp4 and look for "Videos" on the bottom right



TRAINING AVAILABLE

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D-TOOLS CERTIFIED PRODUCT

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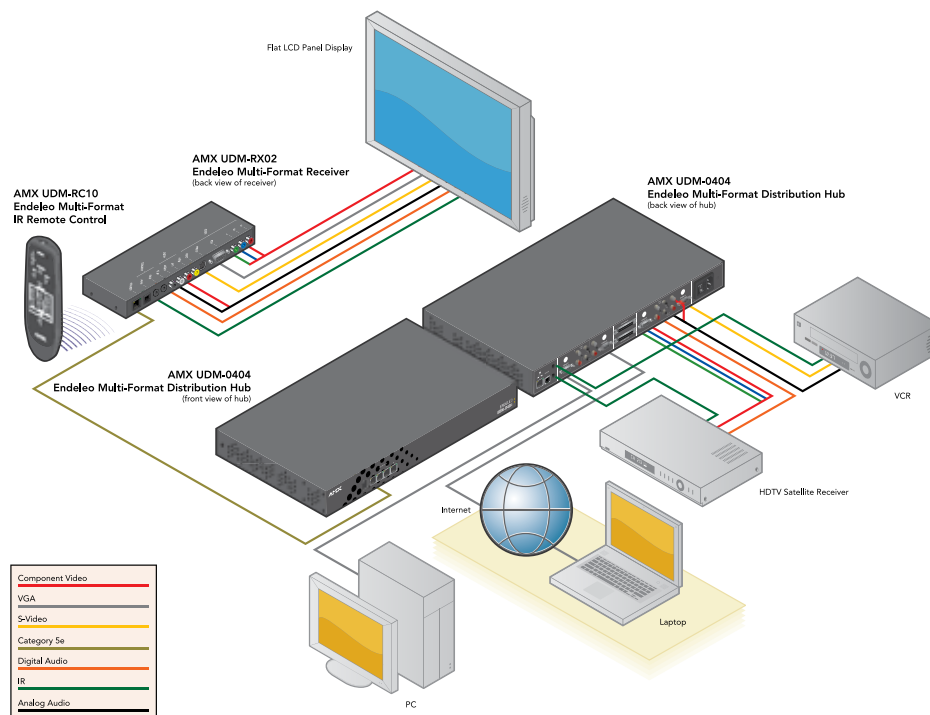
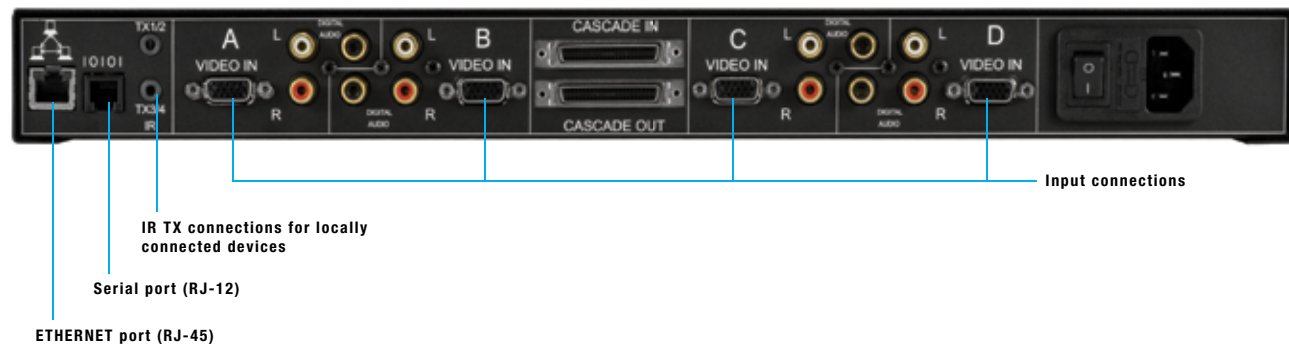
COUNTRY OF ORIGIN: UNITED STATES

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

UDM OUTPUT Ports (RJ-45)



SPECIFICATIONS

DIMENSIONS (HWD)

- 1 3/4" x 19" x 12 1/2" (4.5 cm x 44 cm x 32 cm)
- RU: 1

WEIGHT

8.8 lb (4 Kg)

POWER

3 PIN IEC 90-264 VAC140 W

NETWORK INTERFACE

10baseT

SERIAL INTERFACE

9600,8,N,1

MAX VIDEO INPUT

- 4 x RGBHV (or)
- 4 x S-Video (or)
- 12 x Composite

ELECTRICAL

RJ-45 indicating power to receiver and link status

CERTIFICATIONS

CE, UL, FCC Part 15 Class A

ENVIRONMENTAL

- 35°F to 95°F (5°C to 35°C)
- Max. relative humidity - 85% (non-condensing)

INCLUDED ACCESSORIES

- IEC power cord
- 19" mounting brackets
- 6' Ethernet Crossover Cable
- RS-232 DB-9/RJ-12 connection cable (FG-RS01)
- IR03 External Infrared Receiver Module (FG-IR03)
- UDM-RC10 IR Engineering Remote Control (FG-UDM-RC10)

NOTE: No AV interface cables supplied

RECOMMENDED ACCESSORIES

DESCRIPTION

PART

PAGE

UDM-RX02	Multi-Format Receiver	(FG-UDM-RX02)	687
RS01	RS-232 Serial Transmit Cable	(FG-RS01)	694
IR01	IR Emitter Module	(FG-IR01)	695
IR03	External IR Receiver Module	(FG-IR03)	695
UDM-RC05	Multi-Format IR Remote Control	(FG1402-70)	696
CC-HD15M-RCA3M	Multi-Format HD-15 to 3x RCA Breakout Cable	(FG10-2170-03)	697
CC-HD15M-SVIDM	Multi-Format HD-15 to S-Video Breakout Cable	(FG10-2170-04)	

UDM-0102K

Multi-Format Distribution Hub and Receiver Kit

(FG-UDM-0102K)



OVERVIEW

The UDM-0102K combines the UDM-0102 Multi-Format Distribution Hub and UDM-RX02 Receiver. The UDM-0102K is designed for smaller installations with long video/audio cable runs. It supports two high-resolution input ports and one UDM output port, making it an ideal solution for distributing audio/video content to a classroom, conference room or other presentation room. Advanced, yet cost-effective, the UDM-0102K delivers media over easily-installed, dedicated twisted pair cable, which decouples distribution of the media from the corporate backbone. Users can quickly switch and transmit any video source to any display device, power on/off display devices, and permission user control to select and play video sources and media servers on demand.

COMMON APPLICATION

Ideal for distributing audio/video content to classrooms, conference rooms or other presentation rooms.

KIT INCLUDES

- UDM-0102: 1x2 Multi-Format Distribution Hub
- UDM-RX02: Multi-Format Receiver



BULLSEYE TARGET PRODUCT

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TRAINING AVAILABLE

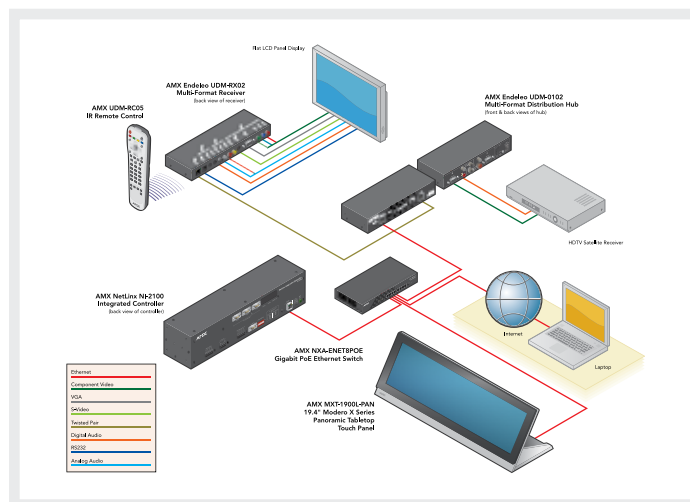
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READ MORE ABOUT IT

Endeleo UDM Series Distributed Media Brochure

We invite you to learn more about the UDM series in the www.amx.com/assets/literature/Endeleo.Brochure.pdf



RECOMMENDED ACCESSORIES

DESCRIPTION

PART

PAGE

RS01	RS-232 Serial Transmit Cable	(FG-RS01)	694
IR01	IR Emitter Module	(FG-IR01)	695
IR03	External IR Receiver Module	(FG-IR03)	695
UDM-RC02	Multi-Format IR Remote Control	(FG-UDM-RC02)	696
CC-HD15M-RCA3M	Multi-Format HD-15 to 3x RCA Breakout Cable	(FG10-2170-03)	697
CC-HD15M-SVIDM	Multi-Format HD-15 to S-Video Breakout Cable	(FG10-2170-04)	697

UDM-0102

2x1 Multi-Format Distribution Hub

(FG-UDM-0102)



OVERVIEW

The UDM-0102 is designed for smaller installations with long video/audio cable runs. It supports two high-resolution input ports and one UDM output port, making it an ideal solution for distributing audio/video content to a classroom, conference room or other presentation room. Advanced, yet cost-effective, the UDM-0102 delivers media over easily-installed, dedicated twisted pair cable, which decouples distribution of the media from the corporate backbone. Users can quickly switch and transmit any video source to any display device, power on/off display devices, and permission user control to select and play video sources and media servers on demand.

COMMON APPLICATION

Ideal for distributing audio/video content to classrooms, conference rooms or other presentation rooms.

FEATURES

- 2 multi-format inputs x 1 RJ-45 output
- Supports Composite, S-Video, Component, RGBHV, RGB
- Digital audio and analog audio support
- Central device control
- Switched manually, centrally (browser) and/or via remote control
- Transmit signals up to 1000 feet (300m) over a single twisted pair cable



BULLSEYE TARGET PRODUCT

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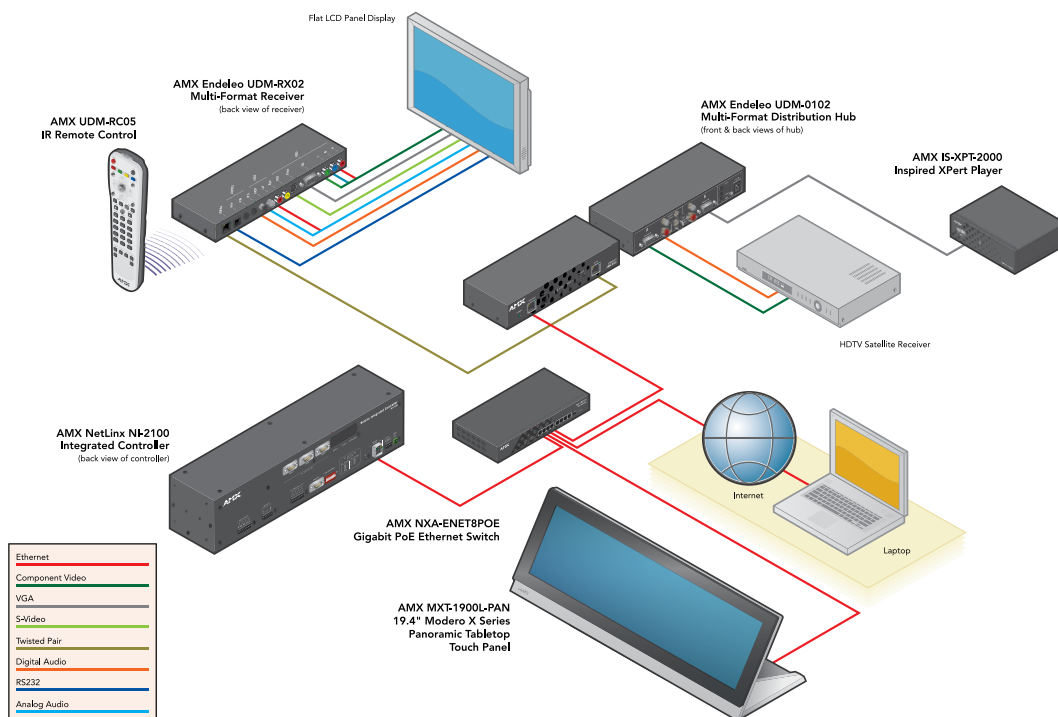
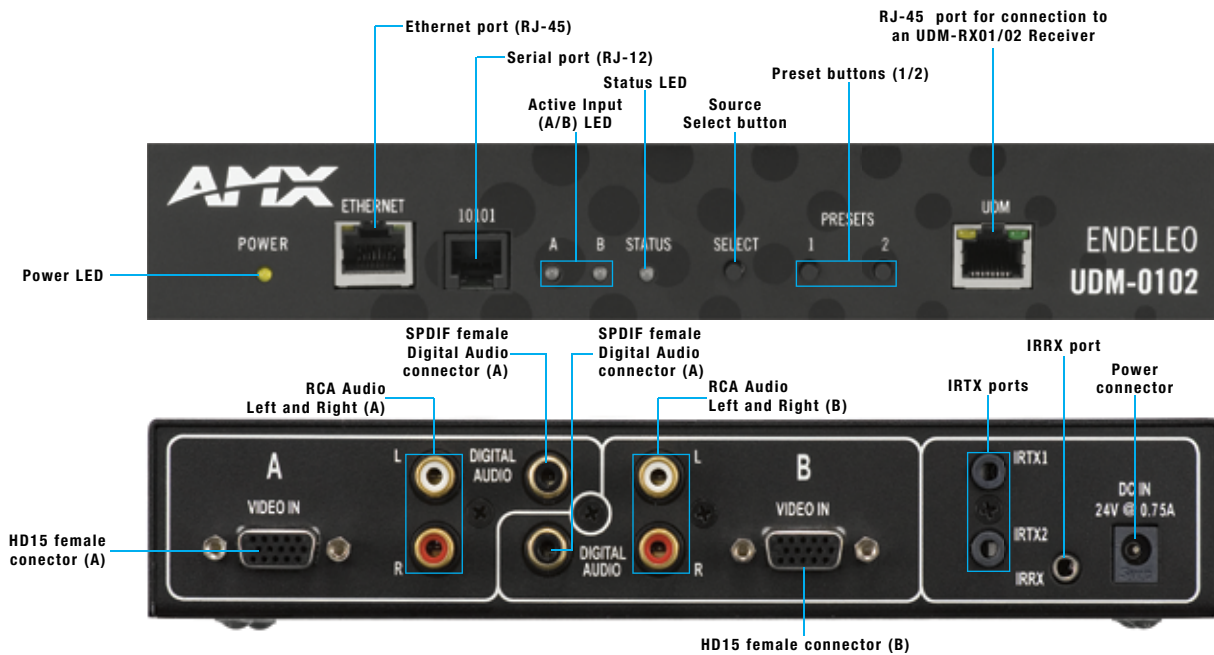


COUNTRY OF ORIGIN: UNITED STATES

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A CLOSER LOOK



SPECIFICATIONS

DIMENSIONS (HWD)

- 1 5/8" x 8 5/8" x 3 11/16" (4.1 cm x 21.9 cm x 9.3 cm)
- RU: 1

WEIGHT

1.60 lb (730 g)

POWER

24V DC @ .75 A

NETWORK INTERFACE

10baseT

SERIAL INTERFACE

9600, 8 bit, No Parity, 1 Stop Bit

MAX VIDEO INPUT

(Multi-format HD-15 inputs provide a variety of format combinations with breakout cables)

- 2 x RGBHV (or)
- 2 x Component (YPbPr) (or)
- 2 x S-Video (or)
- 6 x Composite

ELECTRICAL

RJ-45 indicating power to receiver and link status

FRONT PANEL COMPONENTS

- Ethernet (RJ-45) port: Provides 10 BaseT network connectivity
- Serial (RJ-12) port (labeled "10101"): Enables an administrator to control the various functions to the UDM-0102 from a command line prompt and terminal connection. Requires a DB9-to-RJ-12 adapter cable (FG-RS01) to connect to a PC
- LEDs: The front LEDs are grouped by control type and are labeled according to their corresponding port (connector) numbers on the rear of the unit
 - Power - device is receiving power
 - A - Source A is currently selected
 - B - Source B is currently selected
 - Status - changes from red to green when it receives a valid UDP command, and returns to red after 30 seconds if it has not received anything
- SELECT (A/B) Pushbutton: Pushbutton switches between Source A / Source B
- PRESETS (1/2) Pushbuttons: Two pushbuttons execute user-defined presets
- UDM (RJ-45) port: Provides audio/video transport as well as control via Cat5, Cat5e or Cat6 to a UDM-RX02 Receiver

REAR PANEL COMPONENTS

- Source Inputs (A, B): Two sets of input connectors for AV source devices (labeled A and B):
 - VIDEO IN: HD-15 input connector (female) - supports VGA, Component, S-Video and Composite formats
 - Analog Audio: Left (white) and Right (red) stereo RCA input connectors (female)
 - Digital Audio: S/PDIF (female) input connector
- IRTX Ports: Two 3.5 mm stereo IR Transmitter output ports allow up to two IR-controlled devices (such as a DVD or VCR player) to be controlled via optional wired IR emitters.
- IRRX Port: 3.5 mm stereo input port, allows connecting an IR receiver to allow learning IR commands
- Power Socket: 2.1 mm barrel-style DC power socket (female)

CERTIFICATIONS

CE, FCC Part 15 Class A

ENVIRONMENTAL

- 35°F to 95°F (5°C to 35°C)
- Max. relative humidity - 85% (non-condensing)
- Heat Dissipation (Typical): 30.7 BTU/hr

INCLUDED ACCESSORIES

- 2 HD-15 to 3x RCA Breakout Cables (FG-HD15RCA3F)
- Power Supply, 24 V DC, 750 mA with cable (FG-UDM-PS)

RECOMMENDED ACCESSORIES

DESCRIPTION

PART

PAGE

UDM-RX02	Multi-Format Receiver	(FG-UDM-RX02)	687
RS01	RS-232 Serial Transmit Cable	(FG-RS01)	694
IR01	IR Emitter Module	(FG-IR01)	695
IR03	External IR Receiver Module	(FG-IR03)	695
UDM-RC05	Multi-Format IR Remote Control	(FG1402-70)	696
CC-HD15M-RCA3M	Multi-Format HD-15 to 3x RCA Breakout Cable	(FG10-2170-03)	697
CC-HD15M-SVIDM	Multi-Format HD-15 to S-Video Breakout Cable	(FG10-2170-04)	697

UDM-RX02

Multi-Format Receiver

Multi-Format Receiver (FG-UDM-RX02)

Multi-Format Receiver with Accessories (FG-UDM-RX02A)



OVERVIEW

Installed at the display device, the UDM-RX02/UDM-RX02A converts the signal received from the UDM-0404 or UDM-0102 Multi-Format Distribution Hubs to standard audio/video signals. With intelligent receiver technology, each UDM-RX02 is powered remotely from the Multi-Format Distribution Hub via the Cat 5, 5e or 6 cable. The receiver supports an embedded control function to allow detection of a change in signal from the hub and automatic switch of the Plasma or LCD screen to its new video format. The UDM-RX02 also allows an optional local power supply to be added for long cable runs.

COMMON APPLICATION

Perfect for the receiving end of sources to be displayed in classrooms, conference rooms or other presentation rooms.

FEATURES

- Video Support for 1600 x 1200 (UXGA), 1920 x 1080 (HDTV), Component YPbPr, S-Video, Composite PAL/NTSC
- S/PDIF, Digital and analog stereo audio support
- IR blaster and receiver ports



BULLSEYE TARGET PRODUCT

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TRAINING AVAILABLE

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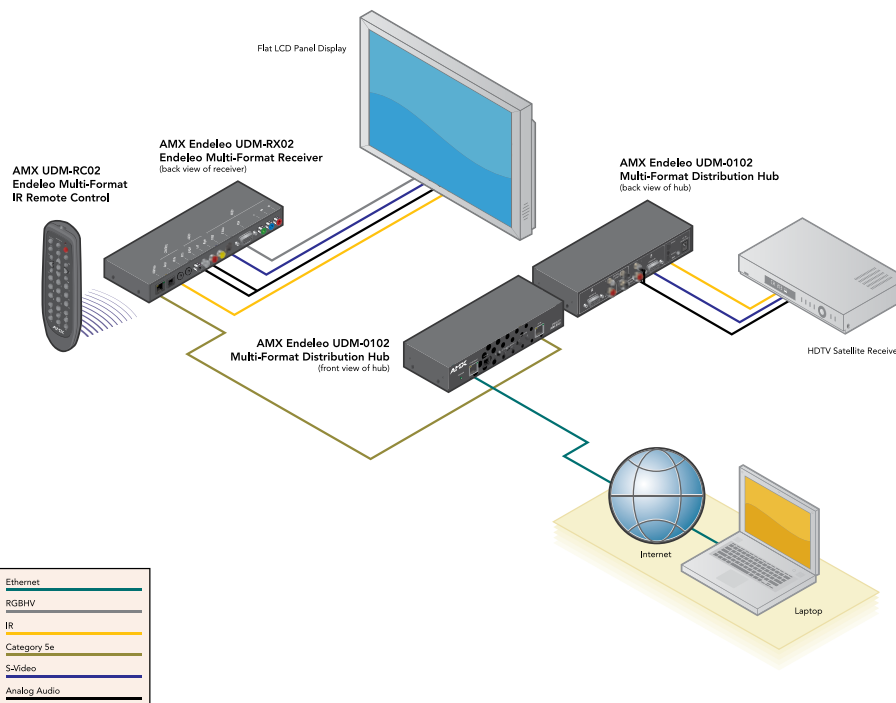
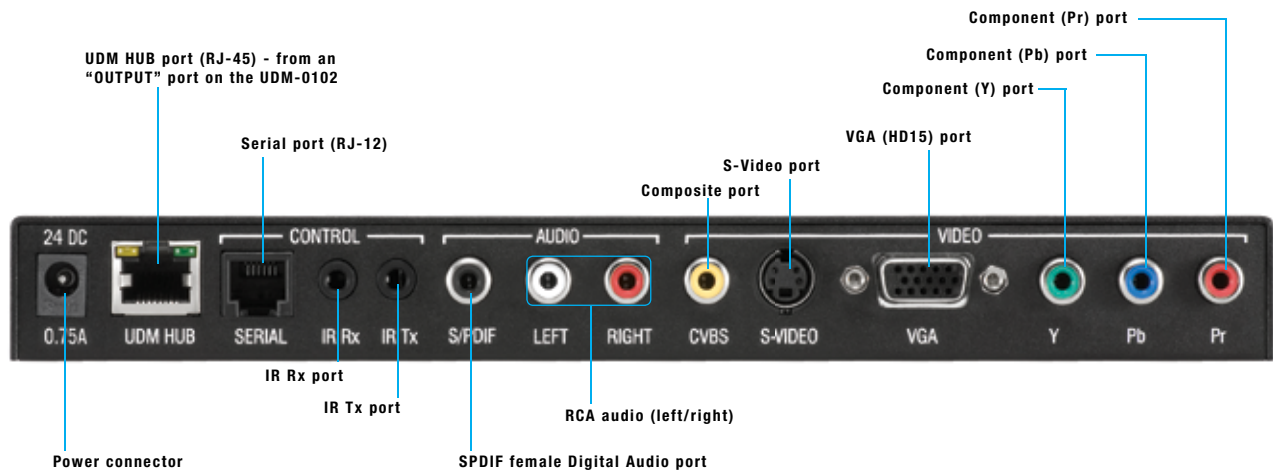


COUNTRY OF ORIGIN: UNITED STATES

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)

- 1" x 8 15/16" x 3 3/8" (2.5 cm x 22.7 cm x 8.5 cm)
- RU: 1

WEIGHT

1.45 lb (658 g)

POWER

24VDC @ .75A

(Note: In most cases the UDM-RX02 is remotely powered by the UDM Multi-Format Distribution Hub)

NETWORK INTERFACE

10baseT

SERIAL INTERFACE

9600,8 bit,No Parity, 1 Stop Bit

VIDEO SUPPORT

- 1600 x 1200 (UXGA)
- 1920 x 1080 (HDTV)
- Component YPbPr
- S-Video
- Composite PAL/NTSC

AUDIO SUPPORT

- Analog Stereo L & R
- Digital
- S/PDIF

ELECTRICAL

RJ-45 indicating power to receiver and link status

REAR PANEL COMPONENTS

- Power Socket: 2.1 mm barrel-style DC power socket (female)
- UDM Hub (RJ-45) Port: Provides audio/video transport as well as control via Cat5, Cat5e or Cat6 to an UDM Hub.
- Serial (RJ12) port: Provides serial RS232 control of remote devices. Also allows administrators to control the various functions to the UDM-RX02 from a command line prompt and terminal connection.
 - Requires a DB9-to-RJ-12 adapter cable (FG-RS01) to connect to a PC.
 - 9600, 8 bit, No Parity, 1 Stop Bit
- IR Rx Port: 3.5 mm stereo input port, for connection of an IR receiver to allow setup of the UDM-RX02, local compensation controls, and remote control of centrally located IR devices.
- IR Tx Port: 3.5 mm stereo IR Transmitter output port allows one IR controlled device (such as a DVD or VCR player) to be controlled via optional wired IR emitter.
- Audio Connectors:
 - Black RCA female connector - Digital audio
 - White RCA female connector - Analog audio Left
 - Red RCA female connector - Analog audio Right
- Video Connectors:
 - Yellow RCA female connector - CVBS (supports composite video)
 - S-Video - S-video female connector
 - VGA - HD-15 female connector (supports VGA video)
 - Green RCA female connector - Component output: Y
 - Blue RCA female connector - Component output: Pb
 - Red RCA female connector - Component output: Pr

CERTIFICATIONS

CE, FCC Part 15 Class A

ENVIRONMENTAL

- 35°F to 95°F (5°C to 35°C)
- Max. relative humidity - 85% (non-condensing)
- Heat Dissipation (Typical): 30.7 BTU/hr

INCLUDED ACCESSORIES

- UDM-PS: 24 VDC, 30 W Power Supply (57-0102-01)

RECOMMENDED ACCESSORIES

DESCRIPTION

PART

PAGE

RS01	RS-232 Serial Transmit Cable	(FG-RS01)	694
IR01	IR Emitter Module	(FG-IR01)	695
IR03	External IR Receiver Module	(FG-IR03)	695
UDM-RC05	Multi-Format IR Remote Control	(FG1402-70)	696

UDM-RX02N

Multi-Format Receiver with Native NetLinx Control

(FG1402-20)



OVERVIEW

Installed at the display device, the UDM-RX02N converts the signal received from the UDM-0808-SIG Multi-Format Distribution Hub to standard audio/video signals. In addition, the UDM-RX02N supports AMX IR(.irl) files, making this a native NetLinx device for control. Serial control of the display device is also possible through direct string support. The UDM-RX02N is powered locally to support long cable run and is capable of being powered remotely when short cable runs are used. With intelligent receiver technology, each UDM-RX02N is powered remotely from the Multi-Format Distribution Hub via the Cat5, 5e or 6 cable. The receiver supports an embedded control function to allow detection of a change in signal from the hub and automatic switch of the Plasma or LCD screen to its new video format.

COMMON APPLICATION

Perfect for the receiving end of a variety of sources such as HDTV Satellite tuners, Blu-Ray DVD players and PCs just to name a few to be displayed in rooms throughout a residence or in classrooms, conference rooms presentation rooms or other commercial applications.

FEATURES

- Video Support for 1600 x 1200 (UXGA), 1920 x 1080 (HDTV), Component YPbPr, S-Video, Composite PAL/NTSC
- S/PDIF, Digital and analog stereo audio support
- IR blaster and receiver ports



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.



TRAINING AVAILABLE

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



READ ABOUT IT:

UDM Universal Distribution Matrix FAQ White Paper We invite you to learn more about the capabilities of universal distribution in the white paper: "UDM Universal Distribution Matrix FAQ" which can be found at: www.amx.com/assets/whitePapers/AMX.Endeleo.UDM.FAQ.pdf



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: UNITED STATES

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

DIMENSIONS (HWD)

- 1" x 8 15/16" x 3 3/8" (2.5 cm x 22.7 cm x 8.5 cm)
- RU: 1

WEIGHT

1.45 lb (658 g)

POWER

24 VDC @ .75A

Note: The UDM-RX02N can also be remotely powered by the UDM Multi-Format Distribution Hub

REAR PANEL CONNECTORS

- Power Socket: 2.1 mm barrel-style DC power socket (female)
- UDM Hub (RJ-45) Port: Provides audio/video transport as well as control via Cat5, Cat5e or Cat6 to an UDM Hub
- Serial (RJ12) port: Provides bi-directional serial control of remote devices. Also allows administrators to control the various functions to the UDM-RX02N from a command line prompt and terminal connection.
 - Requires a DB9-to-RJ-12 adapter cable (FG-RS01) to connect to a PC
 - 9600, 8 bit, No Parity, 1 Stop Bit
- IR Rx Port: 3.5 mm stereo input port, for connection of an IR receiver to allow setup of the UDM-RX02N, local compensation controls, and remote control of centrally located IR devices

- IR Tx Port: 3.5 mm stereo IR Transmitter output port allows one IR controlled device (such as a DVD or VCR player) to be controlled via optional wired IR emitter
- Audio Connectors:
 - Black RCA female connector - Digital audio
 - White RCA female connector - Analog audio Left
 - Red RCA female connector - Analog audio Right
- Video Connectors:
 - Yellow RCA female connector - CVBS (supports composite video)
 - S-Video - S-video female connector
 - VGA - HD15 female connector (supports VGA video)
 - Green RCA female connector - Component output: Y
 - Blue RCA female connector - Component output: Pb
 - Red RCA female connector - Component output: Pr

ENVIRONMENTAL

- 35°F to 95°F (5°C to 35°C)
- Max. relative humidity - 85% (non-condensing)

CERTIFICATIONS

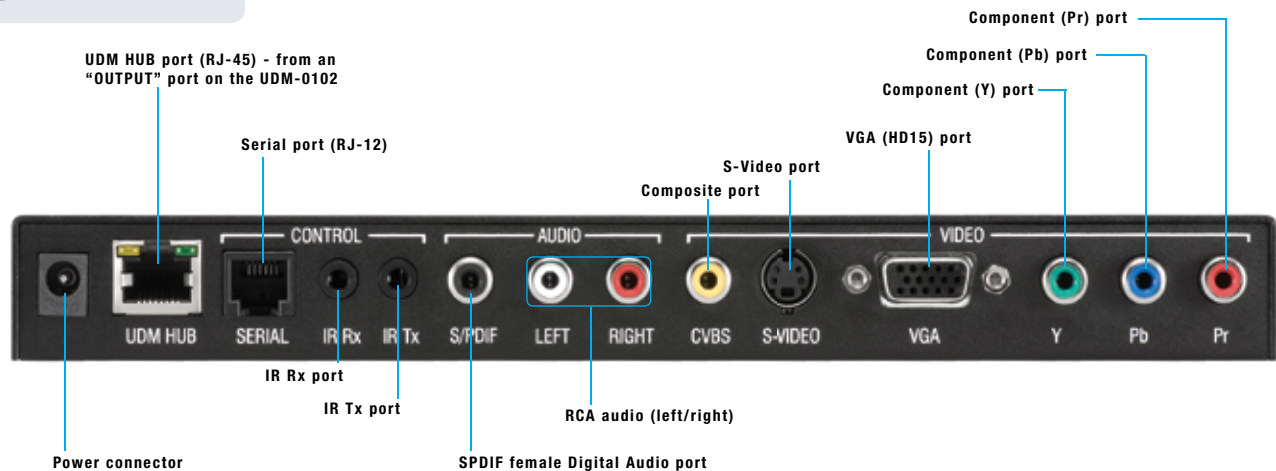
CE, FCC part 15 Class A

INCLUDED ACCESSORIES

UDM-PS: 24 VDC,750 mA Power Supply (57-0102-01)



A CLOSER LOOK



RECOMMENDED ACCESSORIES

DESCRIPTION

PART

PAGE

RS01	RS-232 Serial Transmit Cable
IR01	IR Emitter Module
IR03	External IR Receiver Module
UDM-RC05	Multi-Format IR Remote Control

(FG-RS01)	694
(FG-IR01)	695
(FG-IR03)	695
(FG1402-70)	696

UDM-ABB-8-SIG

Signature Series Audio Breakout Box

(FG1402-60)



OVERVIEW

The UDM-ABB-8-SIG Signature Series Audio Breakout Box delivers analog and digital audio buffered and cascaded from the output side of an Endeleo UDM-0808-SIG Multi-Format Distribution Hub. The 8 individual audio streams can then be centrally delivered as inputs into distributed audio systems that may co-exist with the RX02N receivers.

COMMON APPLICATION

Ideal for residential applications and as a mirror-matched companion to the UDM-0808-SIG and NI-3101-SIG to separate the audio from the 8 audio / video inputs received by the Endeleo UDM-0808-SIG and deliver them in either analog or digital form to the inputs of a distributed audio system.

FEATURES

- 8 Audio outputs (RCA analog and S/PDIF digital)
- Can be used to interface between the UDM-0808-SIG and the Tango DAS-T0808-SIG distributed audio unit
- 1 RU rack-mounting



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.



TRAINING AVAILABLE

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READ ABOUT IT:

UDM Universal Distribution Matrix FAQ White Paper We invite you to learn more about the capabilities of universal distribution in the white paper: "UDM Universal Distribution Matrix FAQ" which can be found at: www.amx.com/assets/whitePapers/AMX.Endeleo.UDM.FAQ.pdf



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: UNITED STATES

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

DIMENSIONS (HWD)

- 1 3/4" x 19" x 12 1/2" (4.5 cm x 44 cm x 32 cm)
- RU: 1

WEIGHT

8 lbs (3.62 kg)

POWER

- Power is supplied from the cascade output port of the UDM-0808-SIG Hub.
- Power dissipated less than 5W.

FRONT PANEL COMPONENTS

Power Status bar: Blue light bar on front panel indicates unit is powered

REAR PANEL COMPONENTS

- Audio In Connectors: 2 SCSI ports support audio input from the Cascade Out ports on an UDM-0808-SIG Hub
- Audio Outputs:
 - Black RCA female connector - Digital audio
 - White RCA female connector - Analog audio Left
 - Red RCA female connector - Analog audio Right

ENVIRONMENTAL

- 32°F to 104°F (0°C to 40°C)
- Max. relative humidity - 85% (non-condensing)

CERTIFICATIONS

CE, FCC part 15 Class A

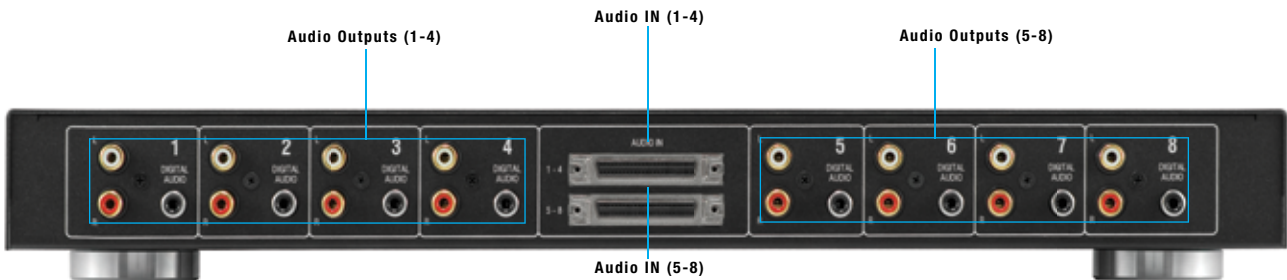
INCLUDED ACCESSORIES

- 19" mounting brackets
- 2 UDM-EXP02 50-Pin Hub Expansion Cables (FG-UDM-EXP01)

Note: Audio cables are not included



A CLOSER LOOK



RECOMMENDED ACCESSORIES

DESCRIPTION

PART #

PAGE #

UDM-EXP02

Multi-Format 50 Pin Hub Cascade Cable

(FG1402-71)

696

RS01

RS-232 Serial Transmit Cable, Straight Thru

(FG-RS01)



OVERVIEW

The RS01 connects the display device to the Managed TV (TVM) or Multi-Format (UDM) Receiver. It enables on/off control, volume up/down and a range of additional user-definable functions.



RS02

RS-232 Serial Transmit Cable, Crossover

(FG-RS02)



OVERVIEW

The RS02 connects the display device to the Managed TV (TVM) or Multi-Format (UDM) Receiver. It enables on/off control, volume up/down and a range of additional user-definable functions.



IR01

IR Emitter Module

(FG-IR01)



OVERVIEW

The IR01 connects to a Managed TV (TVM) or Multi-Format (UDM) Receiver and allows IR signals to be sent to the display device. It enables on/off control, volume up/down and a range of additional user-definable functions.



IR02

IR Splitter Cable

(FG-IR02)



OVERVIEW

The IR02 converts the stereo 3.5 mm jack on the back of the Managed TV (TVM) or Multi-Format (UDM) Distribution Hub to allow two IR01 emitters to be connected to a single port.



IR03

External IR Receiver Module

(FG-IR03)



OVERVIEW

The IR03 connects to a UDM Multi-Format Receiver and allows IR signals to be received from a compatible IR remote control. The IR03 allows the UDM Receiver to be placed behind the display device if desired.



UDM-RC05

Multi-Format IR Remote Control

(FG1402-70)



OVERVIEW

The UDM-RC05 is an IR remote control unit designed to communicate with UDM receivers and provide initial set up and configuration of the UDM system. It provides simple and convenient source, channel, and volume control, as well as buttons used with common third-party set top box menu systems. The UDM-RC05 also provides video compensation controls for the UDM-RX02N receiver, including RGB, sharpness and brightness.



FEATURES

- 43 buttons
- Includes 2 AAA batteries
- Works with common third-party set top box receivers, including DirecTV and Sky
- Provides initial set up and configuration of UDM system

UDM-RC10

Multi-Format IR Engineering Remote Control

(FG-UDM-RC10)



OVERVIEW

The UDM-RC10 is a custom IR remote control unit used for initial set up and configuration of the Multi-Format (UDM) system.



FEATURES

- 20 buttons
- Includes 2 AAA batteries

UDM-EXP02

50-Pin Hub Cascade Cable

(FG1402-71)



OVERVIEW

The UDM-EXP02 is a high-density interconnect cable that provides for the expansion/cascade of sources between multiple UDM-1604C Multi-Format Distribution Hubs. This cable supports the UDM-1604C, UDM-0808-SIG, and UDM-ABB-8-SIG.



CC-HD15M-RCA3M

HD-15 Male to 3 RCA Male Connectors Cable

(FG-2170-03)



OVERVIEW

The CC-HD15M-RCA3M is an HD-15 male to 3x RCA male cable that is used to connect Component or Composite sources to an input via standard RCA/Phono connectors.



CC-HD15M-5BNC

HD-15 Male to 5x BNC Breakout Cable

(FG-2170-05)



OVERVIEW

The CC-HD15M-5BNC is an HD-15 male to 5x BNC male cable that is used to connect sources to an input connector on an Endeleo Multi-Format (UDM) Distribution Hub.



CC-HD15M-HD15M

HD-15 Male to HD-15 Male Cable

(FG10-2170-01)



OVERVIEW

The CC-HD15M-HD15M is a 3-foot VGA cable that is used to connect sources to an input connector on an Endeleo Multi-Format (UDM) Distribution Hub.



AVX-400

Twisted Pair Presentation Switcher

(FG1350-01)



OVERVIEW

The AVX-400 Enova Twisted Pair Presentation Switcher combines all of the components you need to control/automate any environment into a simple, flexible, comprehensive solution including control, multi-format twisted pair inputs, switching, local and remote distribution, plus audio mixing, and amplification - all in a single box.

COMMON APPLICATION

The AVX-400 is designed for classrooms, simple conference rooms and auditoriums with moderate AV requirements and a single projector or display. Mount the AVX-400 from the ceiling, above the projector, or near the display and connect up to 4 remote AV sources using UPX wallplates or HydraPort HPX modules. The UPX wallplates and HPX modules connect to the AVX-400 with up to 50 meters of twisted pair cable.

FEATURES

- **All-In-One Twisted Pair Presentation Switcher** – Including control, multi-format inputs, audio/video switching, audio mixing and amplification – all over twisted pair cable.
- **Multi-Format Video Inputs Provide Flexibility** – Design any combination of RGB, Component, and/or Composite inputs, and walk away from worries about too many of one signal style or not enough of another – just use any UPX universal transmitter wallplate and go.
- **Multiplies Connection Options** – Connect up to 4 remote AV sources using twisted pair cable from the UPX Wallplates or HPX modules in a HydraPort.
- **Audio, Video, Control and Power Over Twisted Pair** – Use cost-effective twisted pair cable to transport audio, video, control and power – all over a single twisted pair cable.
- **Simplifies Switching** – Automatically displays the newly connected source or returns to a pre-set source when a source is disconnected. And comes standard with a source cycle button on every UPX Wallplate to toggle between sources.



- **Pre-Packaged to Vault You into Success** – Choose from two total environment solutions perfect for small to medium classrooms or meeting room environments.



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.



TRAINING AVAILABLE

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



SPOTLIGHT: ENOVA

A new, innovative philosophy on how you think about AV technology: Enova is part of an evolution to collaborate, communicate and educate using AV technology. Visit www.amx.com/enova/ to learn more.



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.

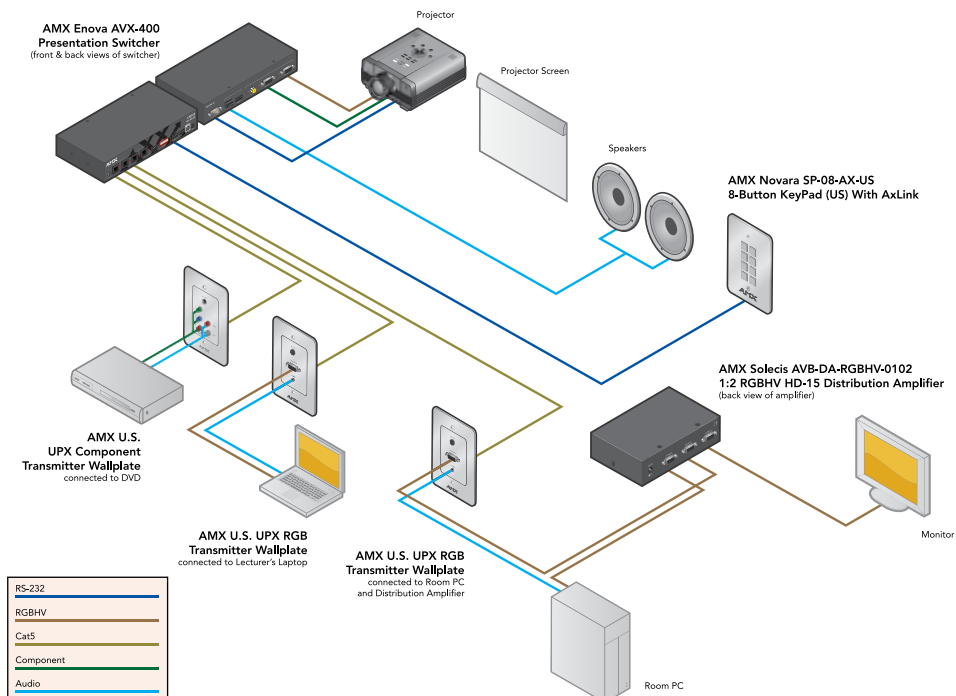
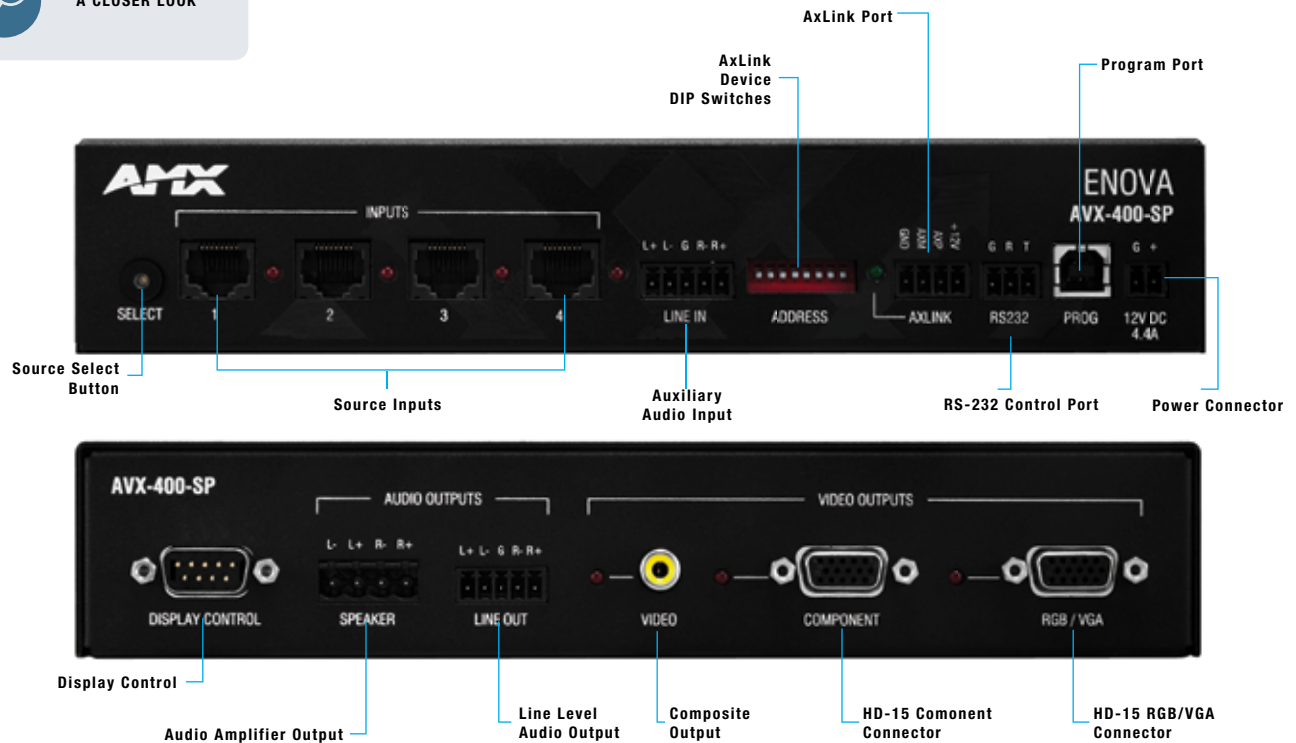


COUNTRY OF ORIGIN: MEXICO

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.



A CLOSER LOOK



SPECIFICATIONS

DIMENSIONS (HWD)

1 3/4" x 9" x 6" (4.45 cm x 22.86 cm x 15.24 cm)

WEIGHT

2.6 lbs (1.2 kg)

POWER

12VDC, 4.4A supply

AUDIO AMPLIFIER

Stereo 10W per channel with 7-band graphic equalization

ENCLOSURE

Metal with black matte finish

FRONT PANEL COMPONENTS

- Source Select Button: 1 button for toggling through the 4 inputs with each press
- Source Select LED Indicators: 4 LED indicators which show which source has been selected
- Source Inputs (INPUTS 1-4): 4 RJ-45 connectors for source audio and video
- LINE IN Auxiliary Audio Output: 1 3.5mm Phoenix (5-pin) connector for use with external audio equipment such as radio microphones and mixers.
- AxLink Device DIP Switches: 1 set of 8 DIP switches for setting the address of an AxLink device
- AxLink Port: 1 3.5mm Phoenix (4-pin) connector that provides data to external control devices and allows the AVX-400-SP to be controlled from a Master. A green AxLink LED indicates the state of the AxLink port. Note: The AVX-400-SP cannot be powered by this port or use the port to power other devices.
- RS-232 Control Port: 1 3.5mm Phoenix (3-pin) connector that provides data to external control devices and allows the AVX-400-SP to be controlled from RS232 controller.
- Configuration Port (PROG): 1 Type-B USB connector for programming the switcher via AMX DCS software
- Power Connector: 1 3.5mm Phoenix (2-pin) connector

REAR PANEL COMPONENTS

- RS-232 Display Control: 1 male DB9 connector used to control a projector or display from the AVX-400-SP
- Audio Amplifier Output: 1 5.0mm Phoenix (4-pin) connector capable of delivering 2x10W into 8 ohm amplified variable stereo audio amplifier.
- Line Level Audio Output: 1 3.5mm Phoenix (5-pin) connector provides the mixed audio at Line Level
- Composite Output: 1 RCA (Y) connector for connecting to a display device

- VGA/RGB Output: 1 HD-15 connector for connecting to a display device
- Component Output: 1 HD-15 connector for connecting to a display device. You can use breakout cable CC-HD15M-RCA3M (FG10-2170-03) to connect to 3 x RCA Phono Sockets.

CERTIFICATIONS

- FCC Class B
- CE
- IEC-60950

ENVIRONMENTAL

- Storage Temperature: -10° C to 70° C (14° F to 158° F)
- Operating Temperature: 0° C to 40° C (32° F to 104° F)
- Operating Relative Humidity: 5% - 85% non-condensing

INCLUDED ACCESSORIES

- 2 5-pin 3.5mm Phoenix connectors, for line-in/out (41-0336)
- 1 4-pin 3.5mm Phoenix connector, for AxLink (41-5047)
- 2 2-pin 5 mm Phoenix connectors, for speakers (41-0158-SA)
- 1 RS-232 3-pin 3.5mm Phoenix connector (41-0338)
- 1 PSN4.4, Power Supply, 4.4A, 3.5mm Phoenix, 13.5VDCA5 (FG423-45)
- Enova AVX-400-SP Presentation Switcher Installation Guide (93-1350-01)
- 1 Suppression Ferrite (04-0018-SA)

RECOMMENDED ACCESSORIES

DESCRIPTION

PART

PAGE

UPX-CS+A-US	Composite Universal Transmitter Wallplate (US)	(FG1402-50-SW/SB/SA)	71
UPX-CS+A-DE	Composite Universal Transmitter Wallplate Decor Style (US)	(FG1402-50-DW/DB)	72
UPX-CS+A-UK	Composite Universal Transmitter Wallplate (UK)	(FG1402-50-KW/KB/KA)	73
UPX-CS+A-EU	Composite Universal Transmitter Wallplate (EU)	(FG1402-50-EW/EB/EA)	74
UPX-RGB+A-US	RGB Universal Transmitter Wallplate (US)	(FG1402-51-SW/SB/SA)	75
UPX-RGB+A-DE	RGB Universal Transmitter Wallplate Decor Style (US)	(FG1402-51-DW/DB)	76
UPX-RGB+A-UK	RGB Universal Transmitter Wallplate (UK)	(FG1402-51-KW/KB/KA)	77
UPX-RGB+A-EU	RGB Universal Transmitter Wallplate (EU)	(FG1402-51-EW/EB/EA)	78
UPX-CN+A-US	Component Universal Transmitter Wallplate (US)	(FG1402-52-SW/SB/SA)	79
UPX-CN+A-DE	Component Universal Transmitter Decor Style Wallplate (US)	(FG1402-52-DW/DB)	80
UPX-CN+A-UK	Component Universal Transmitter Wallplate (UK)	(FG1402-52-KW/KB/KA)	81
UPX-CN+A-EU	Component Universal Transmitter Wallplate (EU)	(FG1402-52-EW/EB/EA)	82
UPX-HDMI+A-US	HDMI Pass Through Universal Transmitter Wallplate (US)	(FG1402-53-SW/SB/SA)	69
UPX-HDMI+A-DE	HDMI Pass Through Universal Transmitter Decor Style Wallplate (US)	(FG1402-53-DW/DB)	70

Stereo | RGBHV
CAT5
Audio • Video

CatPro TX/RX Modules

RGBHV + Stereo

AVB-TX-CATPRO-HD15-5T TX, RGBHV + Stereo Module (FG1010-45-01)
AVB-RX-CATPRO-HD15-5T RX, RGBHV + Stereo Module (FG1010-48-01)



OVERVIEW

Transmit high resolution video transmission over twisted pair cable with AMX's CatPro RGBHV + Stereo Transmitters and Receivers.

FEATURES

- Space saving V-Style (versatile) module design
- Transmits/Receives RGBHV + stereo up to 1,000 feet
- Resolutions up to 1600 x 1200 (4:3) and 1920 x 1080 (16:9)
- Individual transmitter or receiver modules should be paired or applied in conjunction with AutoPatch Optima or Modula CatPro Card
- Power Supply Energy Star® rated to ensure maximum efficiency and savings
- Automatically adjusting universal 110 / 220 IEC power supply is included with every unit
- Compatible with UTP and STP category cable
- Compatible with V-Style mounting options including rack, surface or pole

TRANSMITTER

- True stereo audio transmission
- Loop through outputs for local video and audio

RECEIVER

- Active digital skew adjust up to 62ns, in 2ns increments
- User controlled stereo digital volume adjustment from mute to +6 dB
- Gain and peak adjustment via potentiometers
- Skew and volume control via intuitive user accessible dial



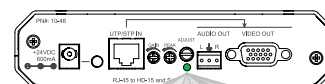
BULLSEYE TARGET PRODUCT

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.



HELPFUL HINT

Simply push the dial and the LED illuminates with the color activated for adjustment, then turn the dial for digital skew adjustments up to 62 ns, in 2 ns increments. One more push of the dial and the LED illuminates white, indicating that the audio is activated for digital volume adjustments from mute to +6 dB.



Shown here:
CatPro RGBHV + Stereo Receiver



A CLOSER LOOK



GENERAL

- Power Consumption (Typ): +12 VDC to +24 V DC @ 6 W
- BTU/HR (Max): 20
- Power Connector: 2.1 mm DC power jack
- Humidity: 0 to 90% non-condensing
- Operational Temperature: 32° to 110° F (0° to 43° C)
- Weight (TX Module): Appx. 1.5 lbs (.68 kg)
- Weight (RX Module): Appx. 1.3 lbs (.68 kg)
- Supported Cable Types: Cat5, Cat5e, Cat6, Cat6e and STP * (*Skew Free cable is NOT recommended.)

CERTIFICATIONS

CE,UL, cUL

DIMENSIONS (HWD)

- TX Module
 - 1 11/16" x 5 13/16" x 5 1/8"
 - 4.2 cm x 14.7 cm x 13.1 cm
- RX Module
 - 1 11/16" x 4 5/16" x 5 1/8"
 - 4.2 cm x 11.0 cm x 13.1 cm

TRANSMITTER

- Signal Types: RGBHV & stereo audio, unbalanced
- Maximum Resolution: 1600x1200 (4:3) and 1920x1080p (16:9) @ 60 Hz up to 1000 ft. (305 m)
- RGB In
 - Signal Level Range: +0.75 VDC to -0.3 VDC (terminated)
 - Impedance: 75 Ohms
 - Return Loss: <-35 dB @ 5 MHz
- RGB Local Out
 - Signal Level Range: +0.75 VDC to -0.3 VDC (terminated)
 - Impedance: 75 Ohms
 - SNR: >65 dB
- Sync In
 - Impedance: 510 Ohms
 - Polarity: Active high or low
- Sync Local Out
 - Signal Levels: Low = 0 VDC, High = +5 VDC (unterminated)
 - Polarity: Active high or low (follows input polarity)
- Audio In
 - Signal Levels (max): +8 dBu
 - Impedance: 2 kOhms

• Audio Local Out

- Signal Levels (max): +8 dBu (unity gain)
- Frequency Response: <± 0.35 dB, 20 Hz to 20 kHz
- THD+N: <0.04 %, 1 kHz, -10 dBu to +4 dBu
- SNR: >105 dB, 20 Hz to 20 kHz Vin=+4 dBu
- Impedance: <5 Ohms

• Connectors

- RGBHV In: 1 Female HD-15
- RGBHV Local Out: 1 Female HD-15
- Stereo Audio In: 1 Female 3.5mm mini-stereo jack
- Stereo Audio Local Out: 1 Female 3.5mm mini-stereo jack
- RGBHV+Stereo Out: 1 Female RJ-45

EDID

• Standard Timing Identification:

- ID 1: 1600 x 1200 @ 60 Hz*
- ID 4: 1280 x 1024 @ 85 Hz
- ID 6: 1152 x 846 @ 120 Hz
- ID 8: 1280 x 800 @ 60 Hz
- ID 7: 1280 x 720 @ 60 Hz
- ID 3: 1024 x 768 @ 120 Hz
- ID 5: 800 x 600 @ 120 Hz
- ID 2: 640 x 480 @ 120 Hz

* This is the preferred timing identified in the EDID

• Established Timing:

- 720 x 400 @ 70 Hz, 88 Hz
- 640 x 480 @ 60 Hz, 67 Hz, 72 Hz, 75 Hz
- 800 x 600 @ 56 Hz, 60 Hz, 72 Hz, 75 Hz
- 832 x 624 @ 75 Hz
- 1024 x 768 @ 60 Hz, 70 Hz, 75 Hz, 87 Hz
- 1280 x 1024 @ 75 Hz
- 1152 x 870 @ 75 Hz

RECOMMENDED ACCESSORIES

DESCRIPTION

PART

PAGE

AVB-VSTYLE-SURFACE-MNT

V-Style Module Surface Mount

(FG1010-722)

707

AVB-VSTYLE-RMK-1U

V-Style Module Tray

(FG1010-720)

707

AVB-VSTYLE-RMK-FILL-1U

V-Style Module Tray w/ fill plates

(FG1010-721)

707

AVB-VSTYLE-POLE-MNT

V-Style Module Pole Mount

(FG1010-723)

708

Stereo | S-Video
CAT5
Audio • Video

Cat5 TX/RX Modules

S-Video + Stereo

AVB-TX-CAT5-SVID-RCA	Transmitter, S-Video / RCA to Cat5 Module	(FG1010-37-01)
AVB-RX-CAT5-SVID-RCA	Receiver, Cat5 to S-Video / RCA Module	(FG1010-34-01)
AVB-TX-CAT5-SVID-3T-BAL	Transmitter, S-Video / 3T Screw Type Balanced Audio to Cat5 Module	(FG1010-03-01)
AVB-RX-CAT5-SVID-3T-BAL	Receiver, Cat5 to S-Video / 3T Screw Type Balanced Audio Module	(FG1010-00-01)



OVERVIEW

Designed to distribute audio and video over Cat5 (5e, 6), Our transmitter/receiver modules can be used as either a standalone end-to-end solution or as integrated components of an AutoPatch signal distribution system.

FEATURES

- Space saving V-Style (versatile) module design
- Transmit S-Video + stereo up to 1,000 feet (10 MHz)
- 480i @ distances up to 1,000 feet
- Choose from balanced or unbalanced audio
- Power Supply Energy Star® rated to ensure maximum efficiency and savings
- Automatically adjusting universal 110 / 220 IEC power supply is included with every unit
- Compatible with the Modula 32x32 Matrix Switcher
- Compatible with V-Style mounting options including rack, surface or pole



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.



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: UNITED STATES

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



GENERAL

- Power Consumption (Max): +12 VDC to +24 VDC @ 1.3 A
- Power Connector: 2.1 mm DC power jack (CAT-5 S-Video+Stereo modules use power supplies that are provided with the unit.)
- Power AF-10: 120 VAC / 240 VAC
- Humidity: 0 to 90% non-condensing
- Operational Temperature: 32° to 110° F (0° to 43° C)
- Weight: Appx. 1.3 lbs (.06 kg)
- Supported Cable Types: Category Cable 5, 5e, 6
- Signal Types: S-Video (or composite on one BNC or RCA) & stereo audio

DIMENSIONS

1 11/16" x 4 5/16" x 5 1/8" (4.2 cm x 11.0cm x 13.1 cm)

CERTIFICATIONS

CE,UL, cUL

VIDEO

- Bandwidth: All distances up to 1000 ft. (± 3 dB) 10 MHz (min.)
- Video Crosstalk: $f = 5$ MHz < -70 dB
- TX Level (max.): ± 2 V
- TX Impedance: 75 ohms
- RX Level (max.): ± 2 V
- RX Impedance: 75 ohms

AUDIO

- THD + Noise, unbalanced: $f = 20$ Hz to 20 kHz, $V_{in} = -10$ to $+8$ dBu $< 0.01\%$
- THD + Noise, balanced
 - $f = 20$ Hz to 20 kHz, $V_{in} = +4$ to $+22$ dBu $< 0.01\%$
 - $f = 20$ Hz to 20 kHz, $V_{in} = -10$ to $+22$ dBu $< 0.04\%$
- Crosstalk, unbalanced: $f = 1$ kHz, $V_{in} = +2$ dBu < -90 dB
- Crosstalk, balanced: $f = 1$ kHz, $V_{in} = +20$ dBu < -90 dB
- TX Level (max.)
 - Balanced (High Headroom): $+22$ dBu
 - Unbalanced (Standard): $+8$ dBu
- TX Impedance: 18 kohms
- RX Level (max.)
 - Balanced (High Headroom): $+22$ dBu
 - Unbalanced (Standard): $+8$ dBu
- RX Impedance: 50 kohms

RECOMMENDED ACCESSORIES

DESCRIPTION

PART

PAGE

AVB-VSTYLE-SURFACE-MNT

V-Style Module Surface Mount

(FG1010-722)

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AVB-VSTYLE-RMK-1U

V-Style Module Tray

(FG1010-720)

707

AVB-VSTYLE-RMK-FILL-1U

V-Style Module Tray w/ fill plates

(FG1010-721)

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AVB-VSTYLE-POLE-MNT

V-Style Module Pole Mount

(FG1010-723)

708

Stereo | Y/c
CAT5
Audio • Video

Cat5 TX/RX Modules

Y/c + Stereo

AVB-TX-CAT5-RCA-RCA	Transmitter, Cat5 to RCA / RCA	(FG1010-61-01)
AVB-RX-CAT5-RCA-RCA	Receiver, Cat5 to RCA / RCA Module	(FG1010-58-01)
AVB-TX-CAT5-BNC-RCA	Transmitter, BNC / RCA to Cat5	(FG1010-49-01)
AVB-RX-CAT5-BNC-RCA	Receiver, Cat5 to BNC / RCA Receiver	(FG1010-46-01)
AVB-TX-CAT5-BNC-3T	Transmitter, BNC / 3T Screw Type Audio to Cat5	(FG1010-55-01)
AVB-RX-CAT5-BNC-3T	Receiver, Cat5 to BNC / 3T Screw Type Audio	(FG1010-52-01)
AVB-TX-CAT5-BNC-3T-BAL	Transmitter, BNC/3T Screw Type Balanced Audio to Cat5	(FG1010-64-01)
AVB-RX-CAT5-BNC-3T-BAL	Receiver, Cat5 to BNC / 3T Screw Type Balanced Audio	(FG1010-67-01)



OVERVIEW

Designed to transmit composite or Y/c and stereo over twisted pair cable, our line of Cat5 Y/c + Stereo Transmitter and Receiver Modules can be used as an end-to-end solution or as integrated components of an AutoPatch signal distribution system.

FEATURES

- New space saving V-Style (versatile) module design
- 480i at distances up to 1,000 feet
- Power Supply Energy Star® rated to ensure maximum efficiency and savings
- Automatically adjusting universal 110 / 220 IEC power supply is included with every unit
- Compatible with the Modula 32x32 Matrix Switcher
- Compatible with V-Style mounting options including rack, surface or pole



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A CLOSER LOOK



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- Humidity: 0 to 90% non-condensing
- Operational Temperature: 32° to 110° F (0° to 43° C)
- Weight: Appx. 1.3 lbs (.06 kg)
- Supported Cable Types: Category Cable 5, 5e, 6
- Signal Types: Y/c (or composite on one BNC or RCA) & stereo audio

DIMENSIONS

1 11/16" x 4 5/16" x 5 1/8" (4.2 cm x 11.0 cm x 13.1 cm)

CERTIFICATIONS

CE,UL, cUL

VIDEO

- Bandwidth: All distances up to 1000 ft. (± 3 dB) 10 MHz (min.)
- Video Crosstalk: $f = 5$ MHz < -70 dB
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- Crosstalk, unbalanced: $f = 1$ kHz, $V_{in} = +2$ dBu < -90 dB
- Crosstalk, balanced: $f = 1$ kHz, $V_{in} = +20$ dBu < -90 dB
- TX Level (max.)
 - Balanced (High Headroom): $+22$ dBu
 - Unbalanced (Standard): $+8$ dBu
- TX Impedance: 18 kohms
- RX Level (max.)
 - Balanced (High Headroom): $+22$ dBu
 - Unbalanced (Standard): $+8$ dBu
- RX Impedance: 50 kohms

RECOMMENDED ACCESSORIES

DESCRIPTION

PART

PAGE

AVB-VSTYLE-SURFACE-MNT

V-Style Module Surface Mount

(FG1010-722)

707

AVB-VSTYLE-RMK-1U

V-Style Module Tray

(FG1010-720)

707

AVB-VSTYLE-RMK-FILL-1U

V-Style Module Tray w/ fill plates

(FG1010-721)

707

AVB-VSTYLE-POLE-MNT

V-Style Module Pole Mount

(FG1010-723)

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AVB-VSTYLE-SURFACE-MNT

V Style Single Module Surface Mount Brackets

(FG1010-722)



OVERVIEW

The V Style Single Module Surface Mount Brackets provide secure mounting to flat surfaces. L bracket shape attaches to pre-existing holes on module. Take advantage of the flexible architecture of stand-alone modules with a secure and professional installation.

FEATURES

- Designed for use with V Style Transmitter / Receiver, Converter and DA modules
- Mount a single module to the wall, under a desk etc.
- Bracket screws securely into place on each side of a module
- Durable powder coat finished metal



AVB-VSTYLE-RMK

V Style Module Rack Mounting Tray

(No Fill Plates) AVB-VSTYLE-RMK-1U (FG1010-720)

(With Fill Plates) AVB-VSTYLE-RMK-FILL-1U (FG1010-721)



OVERVIEW

The V Style Module Rack Mounting Tray allows various combinations of stand-alone modules to be installed in a 1 RU space. Take advantage of the flexible architecture of stand-alone modules with a secure and professional rack mounted installation. Fill plates are available for instances when the entire tray is not full.

FEATURES

- Designed for use with V Style Transmitter / Receiver, Converter and DA modules
- Rack mount 1/3 RW and 1/4 RW modules side by side in a single rack unit
- Modules screw securely into place at all four corners (include screws)
- Durable powder coat finished metal
- Available with and without blank filler plates



SPECIFICATIONS

DIMENSIONS (HWD)

- 1 3/4" x 19" (4.44 cm x 48 cm)
- RU: 1

AVB-VSTYLE-POLE-MNT

V Style Single Module Pole Mounting Kit

(FG1010-723)



OVERVIEW

The V Style Single Module Pole Mounting Kit provides secure mounting to projector pipe or similar types of installations. The U bolt attaches to mounting brackets secured to the side of a module. Take advantage of the flexible architecture of stand-alone modules with a secure and professional installation.



FEATURES

- Designed for use with V Style Transmitter / Receiver, Converter and DA modules
- Mount a single module to projector pipe or similar types of installation
- Kit contains all hardware for the assembly