

SPECIFICATIONS

Dimensions (HWD): 1" x 8 3/4" x 5 1/5"

Weight: Approximately 1.1 lb

Shipping Weight: Approximately 2.2 lb

POWER

AC Power: 100-240 VAC single phase, 50-60 Hz

Power Consumption (Max): 19 W

Power Connector: 2.1 mm DC Power Jack

POWER SUPPLY

External, Included: Each HDMI RX ships with a desktop power supply with power cord, 2.5 A @ 12 V, Max 13.5 V

ENVIRONMENTAL

Temperature (Operating): 32° F to 104° F (0° C to 40° C)

Temperature (Storage): 22° F to 158° F (-30° C to 70° C)

Humidity (Operating): 5% to 85% RH (non-condensing)

Humidity (Storage): 0% to 90% RH (non-condensing)

Heat Dissipation (On): 65 BTU/hr

ETHERNET

Ethernet Connection: (1) RJ-45, TCP/IP Port (ICS LAN 10/100)

DXLINK FIBER

Fiber Connector: LC Duplex conforming to ANSI TIA/EAI 604-10 (FOCIS 10A)

Fiber Cable Type: OM3 50/125µm

Fiber Cable Length: 300m (984 ft)

Transport Layer Throughput: 10.3125 Gbps

Fiber Transceiver Type: 10G SFP+

Optical Wavelength: 850 nm

Optical Budget: 6.8 dB (typical) between DXLink Fiber Transceivers

Optical Modulation Amplitude (OMA): -4.3 dBm (min)

Optical Modulation Amplitude (OMA) Sensitivity: -11.1 dBm (typ)

Optical Transceiver Mean: -1 dBm (average power)

HDMI

Output Connector: (1) HDMI Type A Female

Compatible Formats: HDMI, HDCP, DVI

Signal Type Support: HDMI / DVI-D (single link with HDMI cable adapter)

Progressive Resolution Support: All progressive resolutions between 480p and 1920 x 1200 @ 60 Hz via automatic SmartScale query of the display's preferred DID Detailed Timing Definition

Interlaced Resolution Support: 480i, 576i, 1080i

Output Scaling: SmartScale or Manual Configuration or Bypass

2K Resolution Support: 2048 x 1024@47Hz, 2048 x 1080 @ 60Hz, 2048 x 1152 @ 60Hz, 2048 x 1536 @ 24Hz

3D Format Support: Yes, if Scaler on RX is set to Bypass mode

Frame Packing 1080p 24Hz

Top-Bottom 1080p 24Hz

Frame Packing 720p 50/60Hz

Top-Bottom 720p 50/60Hz

Frame Packing 1080i 50/60Hz

Side-by-Side Half 1080i 50/60Hz

Deep Color Support: 24-bit, 30-bit, 30-bit supported when the HDMI Output Board scaler or DXLink RX scaler is in Bypass mode using CEA-861 formats and resolution is 1080p60 or less

Color Space Support: RGB 4:4:4 / YCbCr 4:4:4 and 4:2:2 - Input signal support for YCbCr 4:4:4 and 4:2:2, output color-space is converted to RGB 4:4:4

HDCP Support: Yes, Supports AMX HDCP InstaGate Pro Technology When used with an Enova DGX Digital Media Switcher the key support is up to 16 sinks per output, independent of source device

CEC Support: None

Propagation Delay (Typical): 26 ms when scaling, 5.2 us when in Bypass mode

CDR (Re-Clocking): Yes

+5 V DDC Pin Output: 55 mA

+5 V USB Pin Output: 500 mA

Output Voltage (Nominal): 1.0 Vpp Differential

Output Rise Time / Fall Time: 425 ps typ (20% - 80%)

Video Data Rate (Max): 4.95 Gbps / 5.568 Gbps, 5.568 Gbps supported when the HDMI Output Board scaler or DXLink RX scaler is in Bypass mode using CEA-861 formats and resolution is 1080p60 or less

Video Pixel Clock (Max): 165 MHz / 185.625 MHz, 185.625 MHz supported when the HDMI Output Board scaler or DXLink RX scaler is in Bypass mode using CEA-861 formats and resolution is 1080p60 or less

Audio Format Support: Dolby TrueHD, Dolby Digital, DTS-HD Master Audio, DTS, 2 CH through 8 CH 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

Local Audio Support: Extraction

HDMI Audio Synchronization: Video formats @ 60Hz frame rate: in scaling mode, audio leads video by 12 ms typical (4 ms to 20 ms). In Bypass mode, audio lags video by 17 ms

ANALOG AUDIO

Output Connections: 3.5mm Mini-Stereo Jack

Output Signal Types: Stereo Analog

Output Level (Max): +2.5 dBu, unbalanced, ≥ 2 kOhm load

Output Frequency Response: $< +0$ dB to -0.5 dB, 50 Hz to 20 kHz

Audio THD+N: $< 0.04\%$, 1 kHz, -10 dBu to $+2$ dBu

Audio S/N Ratio: > 93 dB, 20 Hz to 20 kHz $V_{in} = +2$ dBu

Digital to Analog Reference Level: 0 dBfs = $+0$ dBu

Audio Synchronization: Video formats @ 60Hz frame rate: video formats @ 60Hz frame rate: In scaling mode audio leads video by 12ms typ (4ms to 20ms). In Bypass mode, audio lags video by 14ms

USB (HID) KEYBOARD AND MOUSE

(1) USB Mini A/B Connector ("DEVICE")

CONTROLS

ID Pushbutton: Toggle between DHCP and static IP addressing, place system in NetLinx Device ID assignment mode, reset the factory default settings, restore the factory firmware image

Advanced Configuration Interface: (1) USB Mini-B Connector ("PROGRAM"):

Serial: (1) 3.5mm Pluggable Phoenix Terminal Block / Bidirectional RS-232 Standard NetLinx Baudrate 1200-115k

Parity support: Odd/Even/None

IR RX: (1) 3.5mm Mini-Stereo Jack Port for IR03 Receiver (Optional)

INDICATORS

Power Indicator: (1) LED that lights green during normal operation state / red when power is applied and boot sequence is started / yellow when system initialization is in process

Digital Video Indicator: (1) Green LED indicates the presence of video signals through the module

Audio Indicator: (1) Green LED indicates the presence of digital audio signals through the module

Scaling Button and LEDs: (1) Pushbutton and (3) Green LEDs; use Scaling button to select one of the three options: Bypass, Auto (SmartScale), or Manual. The factory default is Auto (SmartScale). If the RX power cycles, it defaults to the last persisted mode (achieved by pressing scaling button and holding it until the desired scaling mode LED flashes)

IR TX Indicator: (1) Red LED lights during the transmission of IR data via the rear IR port

IR RX Indicator: (1) Yellow LED lights during the receipt of IR data via the rear IR port

RS-232 TX Indicator: (1) Red LED shows serial transmit (TX) data activity

RS-232 RX Indicator: (1) Yellow LED shows serial receive (RX) data activity

LINK/ACT: (1) Green LED lights when the Ethernet cable is connected and an active link is established. This LED also blinks when receiving Ethernet data packets

Status: (1) Green LED lights when the Controller is programmed and communicating properly

CEC Indicator: Not currently supported

USB Indicator: (1) Yellow LED lights when either a Keyboard or mouse is connected directly to the RX, or either and/or both are connected to a USB Hub connected to the RX ID Pushbutton: Places system in NetLinx Device ID assignment mode

FRONT CONNECTORS

Advanced Configuration Interface: (1) USB Mini-B Connector ("PROGRAM")

BACK CONNECTORS

Local Power: 2.1 mm DC Power Jack

DXLink Fiber Input: LC Duplex conforming to ANSI TIA/EAI 604-10 (FOCIS 10A)

ICS LAN/Ethernet Port: (1) RJ-45 Connector, TCP/IP Port (ICS LAN 10/100) Serial:

(1) 3.5mm Pluggable Phoenix Terminal Block

Bidirectional RS-232 Standard NetLinx Baudrate 1200-115k

Parity support: Odd/Even/None IR RX

IR RX: (1) 3.5mm Mini-Stereo Jack Port for IR03 Receiver (Optional)

IR TX: (1) 3.5mm Pluggable Phoenix Terminal Block Port for IR01 Emitter (Optional)

HDMI Output: HDMI Type A Female

Analog Stereo Output: 3.5mm Mini-Stereo Jack

GENERAL

MTBF: 124,232 hours

Noise Level: 0 dBA @ 1m (typ), 45.3 dBA @ 1m (max)

Airflow: Convection (openings on top of case, typ), forced air (out of front plate, when fan is active)

Mounting Options

AVB-VSTYLE-RMK-FILL-1U, V Style Module Rack Mounting Tray /w Fill Plates, 5 1/4" Depth (FG1010-721)

AVB-VSTYLE-RMK-1U, V Style Module Rack Mounting Tray, 5 1/4" Depth (FG1010-720)

AVB-VSTYLE-SURFACE-MNT, V Style Single Module Surface Mount Brackets (FG1010-722)

AVB-VSTYLE-POLE-MNT, V Style Single Module Pole Mounting Kit (FG1010-723)

Regulatory Compliance

FCC CFR Title 47 Part 15 Subpart B Class A

CE EN 55022 Class A

CE EN 55024

CE EN 60950-1

IEC 60950-1

ICES-003 Class A

CSA 60950-1

UL 60950-1

RoHS

WEEE

Safety Certification

Class 1 Eye safe per requirements of IEC 60825-1 / CDRH

Included Accessories

Ships with a desktop power supply with power cord

Optional Accessories

AVB-VSTYLE-RMK-FILL-1U, V Style Module Rack Mounting Tray /w Fill Plates, 5 1/4" Depth (FG1010-721)

AVB-VSTYLE-RMK-1U, V Style Module Rack Mounting Tray, 5 1/4" Depth (FG1010-720)

AVB-VSTYLE-SURFACE-MNT, V Style Single Module Surface Mount Brackets (FG1010-722)

AVB-VSTYLE-POLE-MNT, V Style Single Module Pole Mounting Kit (FG1010-723)

CC-NIRC, NetLinx IR Emitter Cable (FG10-000-11)

IR03, External IR Receiver Module (FG-IR03)

CC-MINIUSB, Mini USB to PC Cable Adapter (FG5967-20)

Compatible AMX Products

Enova DGX 8/16/32/64 Digital Media Switchers with Multimode Fiber Output Board installed including **DGX-O-DXF-MMS** (FG1058-633) or **DGX-O-DXF-MMD** (FG1058-632) installed

Direct point-to-point connection with a Multimode Fiber Transmitter, including **DXF-TX-MMS** (FG1010-363) or **DXF-TX-MMD** (FG1010-362)