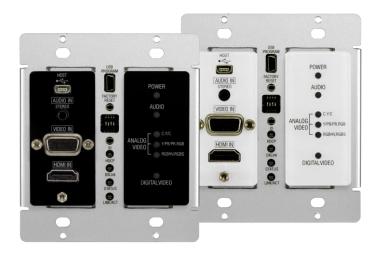


DXLink™ Multi-Format Decor Style Wallplate Transmitters (US)

DX-TX-DWP-BL (FG1010-325-BL)
DX-TX-DWP -WH (FG1010-325-WH)



Overview

The DXLink Multi-Format Decor Style Wallplate Transmitter sends analog or digital video including HDMI/HDCP, along with embedded audio or supplemental analog audio up to 100 meters to an Enova DGX Digital Media Switcher, compatible Enova DVX All-In-One Presentation Switcher, or directly to a DXLink Receiver. It receives Power over DXLink* from the Enova DGX, Enova DVX (3155HD, 3156HD or 2155HD), PS-POE-AT-TC High Power PoE Injector or PDXL-2 Dual Power over DXLink Controller over the twisted pair cable and features both a multi-format analog port to support legacy devices and an HDMI port to support newer digital devices.

Common Applications

Mount the DXLink Multi-Format Decor Style Wallplate Transmitter in the wall, lectern or popular floor box to connect guest equipment and send audio and video signals across the room, on the other side of the house or in a classroom down the hall. Since it is powered remotely, the wallplate can be installed virtually anywhere.

Features

- Only One Cable Send audio and video, while passing Ethernet signals and power over one twisted pair cable
- Multi-Format Analog Port and HDMI Port Supports legacy analog signals RGBHV, Component, S-Video, and Composite, and digital HDMI/HDCP, DisplayPort++ and DVI signals

- Send HDMI signals up to 100 meters Extend the reach of the HDMI signals far beyond the capabilities of typical HDMI cabling
- Standard Twisted Pair Cable Save time and effort in installation by leveraging cost effective twisted pair cable, see the Cabling for Success with DXLink white paper for more details
- Easy Installation Mounts in standard decor style wallplates
- Power over DXLink* Enabled Designed for use with Enova DGX or DVX systems with DXLink inputs, PS-POE-AT-TC (FG423-84) or PDXL-2 (FG1090-170) to provide remotely located Power over DXLink (requires firmware v1.2.40 or above)
- **DXLink Direct Connection** When receiving Power over DXLink* from the PS-POE-AT-TC or PDXL-2, DXLink Wallplates can be connected directly to a DXLink Receiver for a point-to-point solution

Dealer Benefits

- HDMI/HDCP with the Simplicity of Analog Hassle-free plug-and-play operation eliminates the need for time consuming, cumbersome work-around tools to deal with HDCP key constraints and resolution incompatibilities
- Installation Friendly Standard two gang size and remote powering capabilities allows the wallplate to be installed in virtually any location
- Complements Any Environment Decor Wallplate is available in black or white and blends well in both commercial and residential applications

Customer Benefits

- Interruption-Free Content Exclusive InstaGate Pro® Technology allows audio and video to be switched quickly and easily to every connected display without the difficulties typically associated with HDCP
- **Easily Connect Guest Devices** Provides a versatile solution for environments where sources are consistently changing

Additional Features

- Power Remotely Power over DXLink* is carried over twisted pair to simplify installation when used with the Enova DGX, Enova DVX, PS-POE-AT-TC or PDXL-2
- 3D Support Pass through latest video formats including 3D and Deep Color
- Surround Sound Support Pass through high definition surround sound including Dolby TrueHD, DTS-HD
 Master Audio, Dolby Digital, DTS and 2-channel through 8-channel L-PCM at 32 kHz, 44.1 kHz, 48 kHz, 96 kHz, 192kHz
- HDCP Compliant

Specifications

Specifications	
GENERAL	
Dimensions (HWD)	4 1/16" x 3 1/2" x 2 1/4" (10.31 cm x 8.84 cm x 5.72 cm)
Installation	Mounts onto standard double-gang US back box Mounts into standard decor style wallplates (not included)
Weight	Approximately 75 lb (0.34 kg)

^{*} Power must be supplied by one of the following DXLink Power sourcing devices: Enova DGX 8/16/32/64 Digital Media Switcher (with a DXLink Twisted Pair Input Board installed), Compatible Enova DVX All-In-One Presentation Switcher (3155HD, 3156HD or 2155HD), PS-POE-AT-TC High Power PoE Injector or PDXL-2 Power over DXLink Controller. AMX only supports the use of these approved Power over DXLink solutions. Other third party power supplies or non-compatible standard PoE solutions may damage the DXLink equipment.

^{*} Power must be supplied by one of the following DXLink Power sourcing devices: Enova DGX 8/16/32/64 Digital Media Switcher (with a DXLink Twisted Pair Input Board installed), Compatible Enova DVX All-In-One Presentation Switcher (3155HD, 3156HD or 2155HD), PS-POE-AT-TC High Power PoE Injector or PDXL-2 Power over DXLink Controller. AMX only supports the use of these approved Power over DXLink solutions. Other third party power supplies or non-compatible standard PoE solutions may damage the DXLink equipment.

Shipping Weight	Approximately 1.3 lb (.61 kg)
MTBF	381,000 hours
Airflow	Natural convection via air vent openings on front, back
	and top
Compatible AMX Products	 Enova DGX 8/16/32/64 Digital Media Switchers
	Enova DVX-3155HD, DVX-3156HD and DVX-2155HD
	All-In-One Presentation Switchers
	 DXLink HDMI RX as a point-to-point solution (when
	Wallplates are powered by PS-POE-AT-TC or PDXL-2)
	PS-POE-AT-TC High Power PoE Injector
	 PDXL-2 Power over DXLink Controller
Regulatory Compliance	FCC
	CE EN 55022
	CE EN 55024
	CE EN 60950-1
	IEC 60950-1
	UL 60950-1
	RoHS / WEEE compliant
Recommended Accessories	CC-USB, USB Programming Cable (FG10-5965)

DXLink TWISTED PAIR	
Transport Layer Throughput (Max)	10.2 Gbps
Twisted Pair Cable Type	Shielded Cat6, Cat6A and Cat7 DXLink twisted pair cable runs for DXLink equipment shall only be run within a common building where a common building is defined as: the walls of the structure(s) are physically connected and the structure(s) share a single ground reference
	For more details and helpful cabling information, reference the white paper titled <u>Cabling for Success</u> with DXLink, or contact your AMX representative
Twisted Pair Cable Length	Up to 328 ft (100 m)

ACTIVE POWER REQUIREMENTS	
DXLink Power	Power must be supplied by a DXLink Power sourcing device such as: •Enova DGX 8/16/32/64 Digital Media Switcher (with a DXLink Twisted Pair Input Board installed) •Compatible Enova DVX All-In-One Presentation Switcher (DVX-3155HD, DVX-3156HD or DVX-2155HD) •PS-POE-AT-TC High Power PoE Injector •PDXL-2 Power over DXLink Controller When installed in conjunction with an Enova DGX use the Enova DGX Configuration Tool located at AMX.com/enova to determine the power requirements of the configuration
	AMX only supports the use of these approved Power over DXLink solutions. Other third party power supplies or non-compatible standard PoE solutions may damage the DXLink equipment. To use PS-POE-AT-TC or PDXL-2 as a power source the wallplates require firmware v1.2.40 or above
Power Connector	Included on DXLink Connection
Power Consumption (Max)	Power over DXLink supplied: 7 W

POWER SUPPLY	
External, Required	Power must be supplied by a DXLink Power sourcing
	device such as:
	•Enova DGX 8/16/32/64 Digital Media Switcher (with a
	DXLink Twisted Pair Input Board installed)
	Compatible Enova DVX All-In-One Presentation Contract (P) (V 2455UP, P) (V 2455UP)
	Switcher (DVX-3155HD, DVX-3156HD or DVX-2155HD)
	PS-POE-AT-TC High Power PoE Injector PDXL-2 Power over DXLink Controller
	PDXL-2 Power over DXLIIIK Controller
	AMX only supports the use of these approved Power
	over DXLink solutions. Other third party
	power supplies or non-compatible standard PoE
	solutions may damage the DXLink equipment. To use
	PS-POE-AT-TC or PDXL-2 as a power source the
	wallplates require firmware v1.2.40 or above
ENVIRONMENTAL	
Temperature (Operating)	32° to 104° F (0° to 40° C)
Temperature (Storage)	-22° to 158° F (-30° to 70° C)
Humidity (Operating)	5% to 85% RH (non-condensing)
Humidity (Storage)	0% to 90% RH (non-condensing)
Heat Dissipation (Max)	Power over DXLink supplied: 24 BTU/hr
Treat Dissipation (Max)	Tower over BALITIK Supplied. 24 BTO/TII
FRONT CONNECTORS	
User Accessible (accessible with faceplate mounted)	
HDMI Input	HDMI Type A Female
Analog Video Input	HD-15 (Breakout cable required for non RGB formats)
Analog Stereo Input	3.5mm Mini-Stereo Jack
USB (HID) Keyboard & Mouse	USB Mini-B Connector
FRONT CONNECTORS	
Setup Front Connectors (not accessible with	
faceplate mounted)	
Advanced Configuration Interface	USB Mini-B Connector
ID Pushbutton	Toggle between DHCP and static IP addressing
	Places system in NetLinx Device ID assignment mode
	Reset the factory default settings
Docat Duckhutton	Restore the factory firmware image Resets/reboots the CPU of the wallplate
Reset Pushbutton	resets/repoots the CPO of the wallplate
BACK CONNECTORS	
DXLink Output	RJ-45
CONTROL	
CONTROL	
Advanced Configuration Interface	USB Mini-B Connector
INDICATORS	
INDICATORS	
Power Indicator	Green indicates whether or not the module is powered
	on

USB (HID) KEYBOARD & MOUSE	
USB (HID)	(1) USB Mini A/B Connector ("HOST")
	Use in conjunction with an Enova DGX Digital Media Switcher, connect a DXLink TX (twisted pair or fiber) to a PC and emulate keyboard and mouse commands from a DXLink Fiber Receiver (twisted pair or fiber)
	For a list of HID devices which have been tested and found to be working well with the latest firmware please visit: http://www.amx.com/products/AVB-RX-DXLINK-HDMI.asp and view the document "DXLink HID Keyboard and Mouse Supported Devices".

HDMI	
Compatible Formats	HDMI, HDCP , DVI
Input Signal Type	HDMI
	DVI-D (Single Link With Cable Adapter)
	DisplayPort ++ (Input Only, With HDMI Cable Adapter)
Input Connector	HDMI Type A Female
Propagation Delay (Typ)	5 us
Input Voltage (Nominal)	1.0 Vpp Differential
Input Re-clocking (CDR)	Yes
Input Equalization	Yes, Adaptive
Data Rate (Max)	4.95 Gbps / 6.75 Gbps
	6.75 Gbps supported when the DXLink HDMI RX Scaler
	is in Bypass mode and format is 1080p60 or less
Video Pixel Clock (Max)	165 MHz / 225 MHz
	225 MHz supported when the DXLink HDMI RX Scaler
	is in Bypass mode and format is 1080p60 or less
Progressive Resolution Support	480p up to 1920x1200 @ 60 Hz including but not
	limited to those resolutions shown in the DXLink
	Twisted Pair Transmitters/Receiver Instruction Manual
Interlaced Resolution Support	480i, 576i, 1080i including but not limited to those
	resolutions shown in the DXLink Twisted Pair
	Transmitters/Receiver Instruction Manual. If input is
	interlaced, all scaled outputs will deinterlace video to a
	progressive resolution format. If in scaler Bypass mode
	interlaced input will pass through
Deep Color Support	24-bit, 30-bit, 36-bit
	30-bit, 36-bit supported when the DXLink HDMI RX
	Scaler is in Bypass mode and format 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)
3D Format Support	Yes, when scaler on corresponding output board or
	DXLink RX is set to Bypass mode
	Frame Packing 1080p up to 24Hz
	Frame Packing 720p up to 50/60Hz
	Frame Packing 1080i up to 50/60Hz
	Top-Bottom 1080p up to 24Hz
	Top-Bottom 720p up to 50/60Hz
	Side-by-Side Half 1080p up to 50/60Hz
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	Yes for audio insertion
HDCP Support	Yes Supports AMX HDCP InstaGate Pro Technology When used with an Enova DGX 8/16/32/64 Digital Media Switcher the key support is up to 16 sinks per output, independent of source device When used as a single point to point solution the key
	support is defined by the source device
CEC Support	None
DDC/EDID Support	The HDMI EDID in point to point mode is passed up from the sink device.
	When used with Enova DGX 8/16/32/64 Digital Media Switcher or Enova DVX-3155HD, DVX-3156HD or DVX 2155HD the HDMI EDID is passed from the Enova Switcher input to the TX and is user reprogrammable. The analog video input connection provides a fixed EDID set

ANALOG VIDEO	
Compatible Formats	RGBHV, RGBs, RGsB
	YPbPr (HDTV)
	Y/c (S-Video), C (Composite)
Progressive Resolution Support	480p up to 1920x1200 @ 60 Hz (reference the DXLink
	Twisted Pair Transmitters/Receiver Instruction Manual
	for extended list)
Interlaced Resolution Support	480i, 576i, 1080i (reference DXLink Twisted Pair
	Transmitters/Receiver Instruction Manual for
	extended list)
	If input is interlaced, all scaled outputs will deinterlace
	video to a progressive resolution format. If in scaler
	Bypass mode interlaced input will pass through
	unaltered
Auto-Adjust Input	Supported
RGB Input Signal Level Range	1 Vpp nominal
RGB Input Impedance	75 Ω
HV Sync Input Signal Level Range	2 to 5 Vpp
HV Sync Input Impedance	2.5 pF Typ, 10 pF Max
Digital Processing	24 bit, 165 MHz
Y/Pb/Pr Input Signal Level Range	1.0 Vpp for Y, 700 mVpp for Pb Pr
Y/Pb/Pr Input Impedance	75 Ω
Y/c (S-Video) Input Signal Level Range	1.0 Vpp for Y, 1.0 Vpp for c
Y/c (S-Video) Input Impedance	75 Ω
C (Composite) Input Signal Level Range	1.0 Vpp
C (Composite) Input Impedance	75 Ω
Input Connector	HD-15 (Breakout cable required for non RGBHV
	formats)

AUDIO (ANALOG & DIGITAL S/PDIF)	
Input Signal Types	Stereo Analog, S/PDIF
	Video signal must be present to pass Audio
Analog Input Level (Max)	+2 dBu, unbalanced

Analog Input Impedance	10k Ω
Analog to Digital Conversion	48 kHz Sample Rate, 24-bit
S/PDIF Audio Format Support	Dolby Digital, DTS, 2 CH L-PCM
	Dolby Digital and DTS support up to 48kHz, 5.1
	channels
S/PDIF Resolution	16 to 24 bit
S/PDIF Sample Rate	32 kHz, 44.1 kHz, 48 kHz, 96 kHz
S/PDIF Input Signal Level Range	200 mVpp to 600mVpp terminated
S/PDIF Input Impedance	75 Ω
Analog to Digital Reference Level	+2.5 dBu = 0 dBfs
Input Connectors	3.5mm Mini-Stereo Jack (Analog Stereo)
	RCA Jack (S/PDIF)

For a detailed PDF or DXF pictorial drawing please visit: http://www.amx.com/products/DX-TX-DWP.asp

About AMX

AMX hardware and software solutions simplify the implementation, maintenance, and use of technology to create effective environments. With the increasing number of technologies and operating platforms at work and home, AMX solves the complexity of managing this technology with reliable, consistent and scalable systems. Our award-winning products span control and automation, system-wide switching and audio/video signal distribution, digital signage and technology management. They are implemented worldwide in conference rooms, homes, classrooms, network operation / command centers, hotels, entertainment venues, broadcast facilities, and more. ©2014 AMX. All rights reserved.

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