

DXLink 4K60 HDMI Wallplate Transmitter

DX-TX-DWP-4K60-BL (AMX-VTT0001B)

DX-TX-DWP-4K60-WH (AMX-VTT0001W)



Overview

The AMX DXLink 4K60 HDMI Wallplate Transmitter is a 4K60 4:4:4 capable distance transport solution with support for HDMI 2.0 and HDCP 2.2. It transmits audio, video, and USB 2.0 over one shielded Cat6A or Cat7 standard twisted pair cable. DXLink 4K60 HDMI Wallplate Transmitters are perfect for sending HDMI and control signals over long distances to remote DXLink 4K60 Receiver Modules or other compatible AMX Receivers such as the DGX DXLink 4K60 Twisted Pair Input Board or DVX 4K60 All-In-One Presentation Switchers. The transmitter's built-in USB Host port can be connected to a laptop to provide access to USB devices such as a room cameras or soundbars, connected to a DXLink receiver near a display.

Common Applications

Mount the DXLink 4K60 HDMI Wallplate Transmitter in walls, lecterns, or floor boxes to connect guest equipment and send audio and video signals across the meeting room or to a classroom down the hall. Since it can be powered locally or remotely, the wallplate can be installed virtually anywhere.

Features

- **HDMI 2.0 4K60 4:4:4 Over Distance** - Ideal for users running critical viewing applications such as operations centers requiring transport which use the full fidelity of their displays.
- **HDCP 2.2** - Supports the latest video standards to realize the full capabilities of HDMI interfaces.
- **High Dynamic Range (HDR) and Deep Color Support** – Support for HDR10 and up to 36-bit Deep Color.
- **USB 2.0** - High-speed USB 2.0 data from devices like conferencing cameras and storage devices are transmitted without the need for separate cables.
- **RS-232 pass through** - Support bi-directional RS-232 pass-through to a remote DXLink or DXLite receiver.
- **Always, Just One Cable** - Video, audio and USB are delivered over a single twisted pair cable. 4K60 4:4:4 can be transmitted up to 40m when using Cat6a shielded cable or better.
- **Powered locally or remotely** - Power is supplied by a DXLink power-sourcing device, such as DGX DXLink 4K60 Twisted Pair Input Board or DVX-4K All-In-One Presentation Switcher, or locally with a desktop power supply.
- **Easy Installation** - Mounts in standard single-gang backbox

Specifications

GENERAL	
Dimensions (HWD)	4.23”(107.5mm) x 1.78” (45.3mm) x 2.01”(51mm)
Weight	Approx. 0.44lb (0.20kg)
Shipping Weight	Approx. 1.43lb (0.65kg)
Airflow	Convection (openings on top of case)
Mounting Options	Mounts onto standard single-gang US back boxes; Mounts into standard decorator style wallplates.
Compatible AMX Products	<ul style="list-style-type: none"> • Enova DGX 800/1600/3200/6400 Digital Media Switchers with a DXLink Twisted Pair 4K60 Input Board installed; • Enova DVX-2265-4K or DVX-3266-4K All-In-One Presentation Switchers; • DX-RX-4K60 or DXL-RX-4K60, as a point-to-point solution; • PS-POE-AT-TC High Power PoE Injector.
Regulatory Compliance	FCC CE EN 55032 CE EN 55035 ICES-003 IEC 62368-1 UL 62368-1 VCCI-CISPR 32 RCM RoHS
Included Accessories	Each DXLink 4K60 HDMI Wallplate Transmitter ships with a desktop power supply, a single-gang US decorator style wallplate with screws, a 3-pin 3.5mm Phoenix connector for RS-232, a locking center screw for HDMI cable, and 2 mounting screws for back box. Unless using DXLink Power, only the provided desktop power supply should be used, and it must not be altered in any way.

POWER SUPPLY	
External, Included	Desktop power supply with exchangeable AC plugs (US, EU, UK, AU, and CN) DC 12V 1.5A
AC Power	100-240 VAC single phase, 50-60 Hz 0.6 A @ 115 VAC max
Power Consumption (Max)	5.5W
Power Connector	2-Pin Phoenix Port
External, Optional	Power can also be supplied by a DXLink Power sourcing device such as: <ul style="list-style-type: none"> • Enova DGX 800/1600/3200/6400 Digital Media Switcher with DGX-I-DXL-4K60 (FG1061-572); • Enova DVX-2265-4K (FG1906-0201) or DVX-3266-4K (FG1906-0401); • PS-POE-AT-TC High Power PoE Injector (FG423-84). AMX does not support the use of any other power supplies or PoE injectors as these may potentially damage the DXLink equipment.

ENVIRONMENT	
Temperature (Operating)	32°F to 104°F (0°C to 40°C)
Temperature (Storage)	-40°F to 185°F (-40°C to 85°C)
Humidity (Operating)	10% to 90%, non-condensing
Humidity (Storage)	10% to 95%, non-condensing

FRONT CONNECTORS	
HDMI Input	HDMI 2.0 Type A connector for digital video and embedded digital audio (supports DVI signal passing-through to downstream).
USB Host	USB 2.0 Type B connector for USB HID and USB 2.0 transport

FRONT INDICATORS	
Power Indicator	Green LED indicates whether the wallplate is powered on.
HDMI Indicator	Green LED On indicates the HDMI signal is normal. Green LED Off indicates no HDMI input signal.
LINK Indicator	Green LED On indicates the DXLink signal is normal. Green LED Off indicates no DXLink output or link error.

BACK CONNECTORS	
12V DC Power	2-Pin Phoenix Port
DXLink Output	RJ-45
RS-232	3-pin Phoenix Port
RS-232 Switch (on the top)	RS-232 port configuration, pass-through or program (for firmware update). Note: RS-232 baud rate is fixed at 115200.

HDMI	
Compatible Formats	HDMI, HDCP, DVI
Signal Type Support	HDMI, DVI
Input Connector	HDMI Type-A Port
Input Equalization	Yes, Adaptive
Video Data Rate (Max)	18Gbps
Video Pixel Clock (Max)	600MHz
Progressive Resolution Support	Up to 4096x2160@60 Hz (including but not limited to those resolutions shown in the DXLink 4K60 HDMI Wallplate Transmitters Hardware Reference Manual)
Interlaced Resolution Support	1080i @ 50/60 Hz (including but not limited to those resolutions shown in the DXLink 4K60 HDMI Wallplate Transmitters Hardware Reference Manual)
4K Resolution Support	<ul style="list-style-type: none"> • 3840x2160p@24/25/30 Hz • 4096x2160p@24/25/30 Hz • 3840x2160p@60 Hz, 4:2:0 • 4096x2160p@60 Hz, 4:2:0 • 3840x2160p@60 Hz, 4:4:4 NOTE: See full list of formats in the DXLink 4K60 HDMI Wallplate Transmitters Hardware Reference Manual
Deep Color Support	24-bit, 30-bit, 36-bit 30 and 36-bit deep color are supported in CTA-861 formats up to 3840x2160p@30Hz 4:4:4; 3840x2160p@50/60Hz 4:2:2; 3840x2160p@50/60Hz 4:2:0. 4096x2160p@24Hz, 25Hz, 30Hz only support deep color when using YCbCr 4:2:2 Chroma-Subsampling. Output of 30 and 36-bit deep color formats require any downstream DXLink DX-RX-4K60 Scaler to be placed in Bypass mode
Color Space Support	RGB 4:4:4 YCbCr 4:4:4, 4:2:2 and 4:2:0
HDMI Cable Requirement	Premium High-Speed HDMI Cable (18 Gbps), Required
HDCP Supported	Yes, 1.4, 2.2
Audio Format Support	Dolby TrueHD, Dolby Digital, DTS-HD MA, DTS, 2 CH L-PCM, 6 CH L-PCM, 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

DXLINK	
Transport Layer Throughput	10.2 Gbps
Twisted Pair Cable Type	<p>Shielded Cat 6/6a/7</p> <p>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.</p> <p>For more details and helpful cabling information, reference the white paper titled Cabling for Success with DXLink, or contact your AMX representative</p>
Twisted Pair Cable Length	<p>For shielded Cat 6 cable: Up to 115ft. (35m) for 4K@30/60Hz 4:4:4 Up to 197ft. (60m) for 1080P@60Hz</p> <p>For shielded Cat 6a/7 cable: Up to 131ft. (40m) for 4K@30/60Hz 4:4:4 Up to 230ft. (70m) for 1080P@60Hz</p> <p>IMPORTANT: DXLink twisted pair cable runs for DXLink equipment shall only be run within a common building. "Common building" is defined as: Where the walls of the structure(s) are physically connected, and the structure(s) share a single ground reference.</p>

USB	
USB Transport	<p>USB Type B port for Host</p> <p>USB HID and USB 2.0 are supported point-to-point to DXLink 4K60 or DXLite 4K60 HDMI Receiver.</p> <p>Use in conjunction with an Enova DGX Digital Media Switcher (with a DXLink 4K60 Twisted Pair Input Board installed) or an Enova DVX-4K Presentation Switcher, USB HID and USB 2.0 are supported point-to-point to extend to the USB A/B port of DXLink 4K60 input on the switcher.</p>

