DXLink™ 4K60 HDMI Fiber Transmitter Module

DXFP-TX-4K60 (FG1010-365-01)
DXFP-TX-4K60-TAA (FG1010-365-02)

Overview

The DXLink 4K60 HDMI Fiber Transmitter is HDMI 2.0 and HDCP 2.2 compliant. It supports 4K60 4:4:4 video and High Dynamic Range (HDR) for pixel-for-pixel image reproduction without chroma subsampling. It transmits audio, video, control, USB 2.0, and Ethernet over duplex fiber to a DXLink Fiber receiver, up to 550 meters away. This module includes a Multi-Mode Duplex (MMD) SFP+ module, which can be replaced with a Single-Mode Duplex (SMD) SFP+ module if needed.

Common Applications

Fiber uses light to distribute data rather than electric signals making it both the highest quality and most secure way to transport video as it is not susceptible to electronic noise or non-intrusive physical wiretapping. This module is compatible with DGX DXLink 4K60 Fiber input cards and DXLink 4K60 Fiber receivers. It is ideal for applications where the demands of high-resolution video clarity, long distance transmission, and maximum security need to be met without compromise, including campus-wide distribution of sources that are shared between classrooms, secure military applications, casinos, arenas, and museums.

Features

- **4K@60Hz 4:4:4 8bit and HDCP 2.2 with Display Stream Compression (DSC)** - Visually lossless compression and future-proof support.
- **Only one cable** - Send audio, video, control, USB 2.0, and Ethernet over one optical cable up to 300m with OM3 and 550m with OM4.
- **Industry Leading Data Rate –** DXLink is leading the way with an optical transport rate of 10 Gbps.
- **Native NetLinx Control Everywhere** – Control connected devices using the built-in IR and RS232 ports.
- **USB 2.0 Pass-Through** – Extend USB 2.0 signals up to 550 meters.

Specifications

GENERAL	
Dimensions (WHD)	220mm x 25mm x 160mm / 8.66" x 0.98" x 6.30"
Weight	Approx. 1.94lb (.88kg)
Shipping Weight	Approx. 3.81lb (1.73kg)
Mounting Options	Compatible with all V Style versatile mounting options including rack, surface or pole (for V Style Mounting kits, see www.amx.com)
Compatible AMX Products	DXFP-RX-4K60 (FG1010-565-01), DXFP-RX-4K60-TAA (FG1010-565-02), Enova DGX Digital Media Switchers with DGX-I-DXFP-4K60 (FG1061-624) Input Board installed
Airflow	Convection (openings on top, sides and bottom of case)
Regulatory Compliance	CE/FCC/ETL/PSE/RCM

DXLINK FIBER	
Transport Layer Throughput (max)	10 Gbps
Fiber Connector	LC Duplex conforming to ANSI TIA-EIA 604-10 (FOCIS 10A)
Fiber Transceiver Type	10G SFP+
Optical Cable Type	OM3/OM4
Fiber Cable Length	OM3: 300m/984ft OM4: 550m/1804ft

ACTIVE POWER REQUIREMENTS	
DC Power	DC 12V 3A
Power Consumption (Max)	16.44W
Power Connector	2.1 mm DC power jack

POWER SUPPLY	
External, Included	Each TX ships with a desktop power supply with power cord

ENVIRONMENT	
Temperature (Operating)	0°C to 40°C (32°F to 104°F)
Temperature (Storage)	-20°C to 70°C (4°F to 158°F)
Humidity (Operating)	5% to 85%, non-condensing

BACK CONNECTORS	
Local Power	2.1 mm DC Power Jack
DXLink Output	LC Duplex conforming to ANSI TIA-EIA 604-10 (FOCIS 10A)
ICS LAN 10/100	RJ-45, TCP/IP Port (ICS LAN 10/100)
HDMI Input	HDMI Type-A Receptacle
HDMI Output	HDMI Type-A Receptacle
Serial	3.5mm Phoenix Receptacle
IR Control	IR RX (3.5mm mini Jack) for IR Receiver IR TX (3.5mm Phoenix Receptacle) for IR Emitter
USB Host	USB Type B Receptacle ("Host") Connect to a USB-host device (e.g. PC).
USB (HID)	USB Type A Receptacle ("Device") Connect to USB devices (e.g. keyboard, mouse, interactive whiteboard).
Analog Audio Input	3.5mm Mini Stereo Jack

FRONT INDICATORS, SWITCHES AND BUTTON	
Power Indicator	Green indicates whether or not the device is powered.
Status Indicator	Green indicates whether or not the Transmitter is programmed and communicating properly.
HDCP Indicator	Yellow LED. On indicates HDCP-protected content is being transmitted, Blinking indicates Non-HDCP Protected content is being transmitted, and Off indicates No content is being transmitted.
LINK Indicator	Green LED. On indicates the ethernet cable is connected and an active link is established, Blinking indicates receiving ethernet data packets.
ID Pushbutton	Place the transmitter in ID mode for setting the NetLinx ID (Device only) and provides additional functionality, such as placing the device in Static IP mode or DHCP Mode.
USB Mode Switch	Switch to USB Host (default setting) or USB Device Mode. Set the switch to Host when connecting to a USB Host such as a PC. Set the switch to Device when connecting to a USB Device such as a keyboard or camera.
DIP Switch	For LAN port, DXLINK, and network control modes configuration.

USB HOST/HID	
USB HOST	USB Type-B Receptacle. Use when connected with a USB HOST device such as PC. Slide the USB Mode Switch to HOST mode.
USB HID	USB Type-A Receptacle. Use when connected with USB devices such as a Keyboard & Mouse.

HDMI	
Compatible Formats	HDMI, HDCP
Signal Type Support	HDMI
Input Connector	HDMI Type-A Receptacle
Data Rate (Max)	18Gbps
Pixel Clock (Max)	600MHz
Input Resolution Support	Up to 4K@60Hz, 4:4:4 8bit
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 2160p30 or less on 4K@60 Output products.
Color Space Support	RGB 4:4:4 YCbCr 4:4:4, 4:2:2 and 4:2:0 (4:2:0 requires output scalers to be in bypass) (Input signal support for YCbCr 4:4:4 and 4:2:2, output color-space is converted to RGB 4:4:4 when output scaler is active)
3D Format Support	Not Supported
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
CEC Support	DXLink Fiber out CEC and HDMI local loop out CEC can be switched separately, passthrough HDMI in CEC or controlled by Transmitter.

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