

Technical Specifications

TL-FO2-HDC

Features at a Glance

- Transmit HDMI and IR or RS232 over two fiber optic conductors
- LC connectors for fiber connection
- Single & multimode fiber compatible
- Extend 18G HDMI up to 300m (984 ft.)
- HDMI 2.0 & HDCP 2.2 compliant
- 4K@60 compliant
- Immune to RF & EM interference

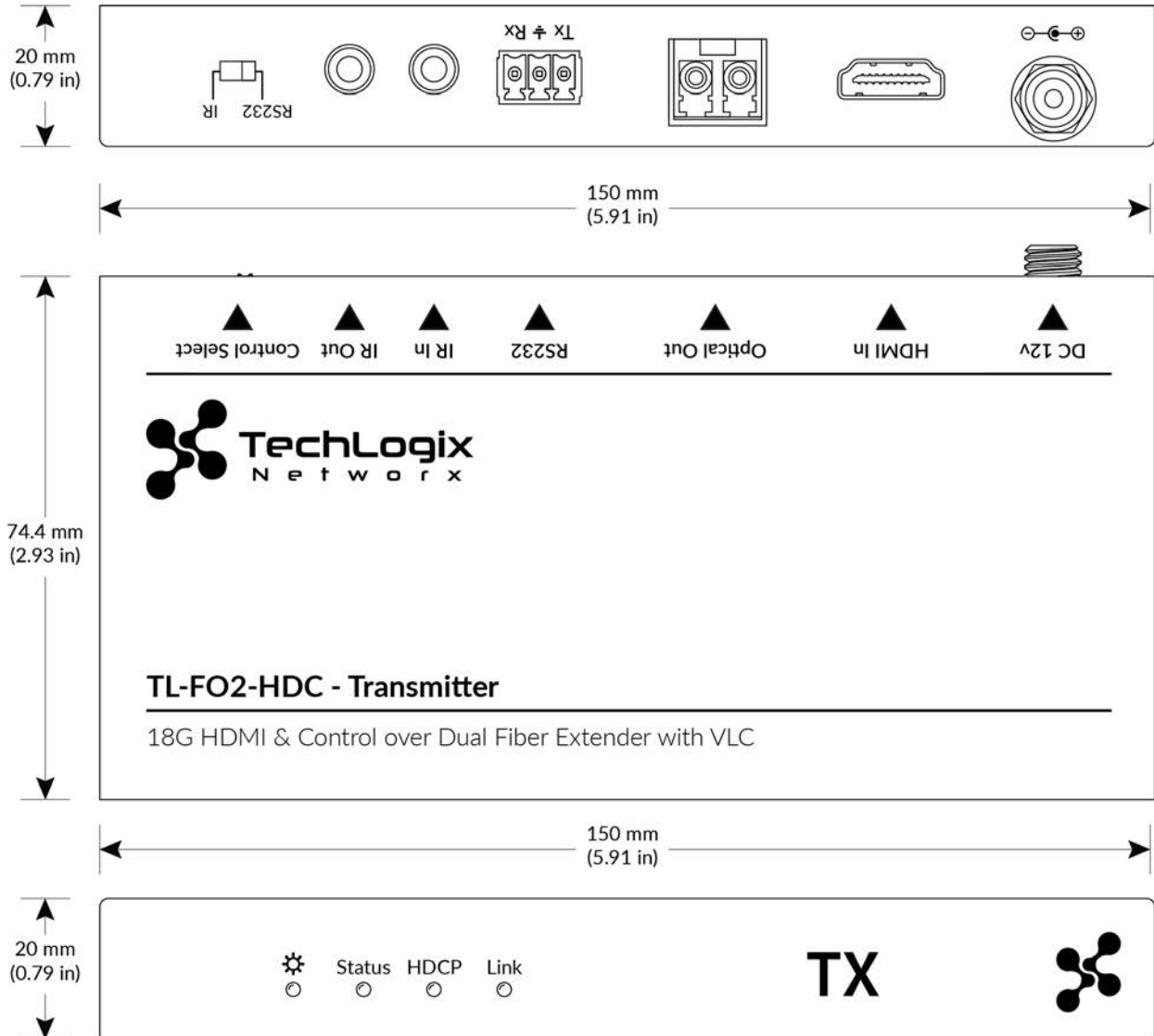


The TL-FO2-HDC is an HDMI 2.0 (18G signal) with HDCP 2.2 support fiber optic extender set that can reach up to 300 meters (984 ft) over a duplex OM3 cable with common LC terminations. The unit supports HDMI video resolutions up to 4K@60, HDR video, IR or RS232 pass-through controls and multichannel audio. The TL-FO2-HDC is also compatible with HDMI 1.3/1.4 content with HDCP 1.3/1.4 content protection.

Specifications

Transmitter Input/Output	
HDMI Input	1 HDMI Receptacle
Optical Output	2 LC Ports via SFP+ Module
IR Input/Output	2 3.5mm TRS Ports
RS232	1 3-pin Removable Terminal Block
12V DC	1 5.5mm OD/2.5mm ID Threaded Barrel Connector
Control Selector	1 2-position Switch
Receiver Input/Output	
HDMI Output	1 HDMI Receptacle
Optical Input	2 LC Ports via SFP+ Module
IR Input/Output	2 3.5mm TRS Ports
RS232	1 3-pin Removable Terminal Block
12V DC	1 5.5mm OD/2.5mm ID Threaded Barrel Connector
Control Selector	1 2-position Switch
Supported Audio, Video, and Control	
Compatible Video Signals	All SD, HD, and other resolutions up to - 4K/60 Hz / RGB and 4:4:4 8 bit (HDR) - 4K/60 Hz / 4:2:2 10 bit (HDR) - 4K/60 Hz / 4:2:0 10 bit (HDR)
Video Compliance	HDMI 2.0, HDMI 1.4, DVI 2.0 (Pixel clock up to 594 MHz)
Digital Content Protection	HDCP 1.2 / HDCP 2.2 Compatible
Embedded Audio	LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
Supported RS232 Baud Rates	2400, 4800, 9600, 19200, 38400, 57600, 115200
Supported IR Carrier	33 to 55 kHz
Fiber Optic Transmission Characteristics	
Required Cable Type	Duplex OM3
Maximum Bandwidth	10 Gbps
Maximum Distance with Stock SFP+ Modules	300m (984 ft)
Signal Compression	1.8:1 Maximum; Compression starts when video signal >9 Gbps
Chassis and Environmental	
Product Construction	Painted aluminum
Product Dimensions (W*H*D)	150 mm (5.91 in) x 20 mm (0.79 in) x 74.4 mm (2.93 in)
Product Operational Chassis Temperature	35 to +44°C (95 to +111 °F)
Environmental Operating Temperature	0 to +45°C (32 to +113 °F)
Environmental Operating Humidity	10% to 90%, non-condensing
Environmental Storage Temperature	-20 to +70°C (-4 to +158 °F)
Environmental Storage Humidity	10% to 90%, non-condensing
Power and Regulatory	
Power Input	12V DC
Power Supply Input	100-240V AC at 50/60 Hz; 0.5A Max
Power Supply Output	12V DC at 1 A
Maximum Power Consumption	6 watts
ESD Protection	Human-body Model: ±8kV Air-gap discharge and ±4kV Contact discharge
Regulatory Compliance	FCC, CE, RoHS, WEEE
Other	
Warranty	Three years
Diagnostic LEDs	Link, Status, HDCP and Power
Included Accessories	IR Receiver (2 ea), IR Transmitter (2 ea), Mounting Ears (4 ea), Rubber Feet (8 ea), 12V 1A DC Power Supply (2 ea), 3-pin 3.5mm Terminal Block (2 ea)

Transmitter Dimensional Drawings



Receiver Dimensional Drawings

