

Technical Specifications

TL-FO2-HDC2

Features at a Glance

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



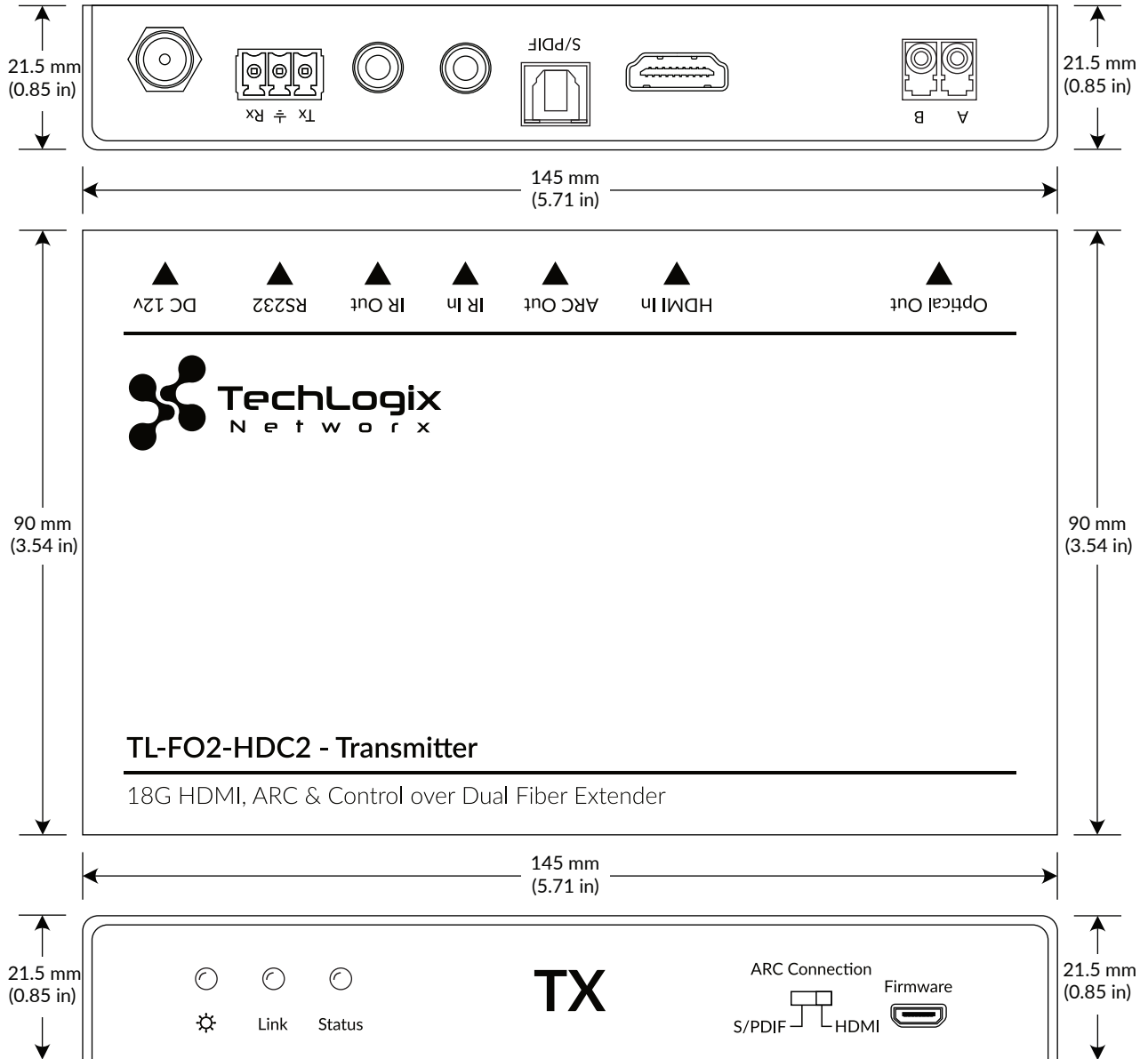
The TL-FO2-HDC2 is an HDMI 2.0 (18G signal) with HDCP 2.2 support fiber optic extender that can reach up to 300 meters (984 ft) over a duplex OM3 or OS2 cable with common LC terminations. The unit supports HDMI video resolutions up to 4K@60, HDR video, IR or RS232 pass-through controls, multichannel audio, as well as ARC with optional optical audio embedding and/or de-embedding. The TL-FO2-HDC2 is also compatible with HDMI 1.3/1.4 content with HDCP 1.3/1.4 content protection.

The TL-FO2-HDC2 supports two ARC connection modes: HDMI and S/PDIF, which results in four options to pass audio from the display to the head end. When the receiver is set to HDMI, audio from the display will pass to the transmitter via the HDMI output port. When the receiver is set to S/PDIF, audio from the display will pass to the transmitter via the S/PDIF optical audio port. When the transmitter is set to HDMI, audio from the receiver will be provided on the HDMI input port. When the transmitter is set to S/PDIF, audio from the receiver will be provided on the S/PDIF optical audio port.

Specifications

Transmitter Input/Output	
HDMI Input	1 HDMI Receptacle
Optical Output	2 LC Ports
ARC Output	1 Optical Audio Port
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
ARC Audio Selector	1 2-position Switch
Receiver Input/Output	
HDMI Output	1 HDMI Receptacle
Optical Input	2 LC Ports
ARC Input	1 Optical Audio Port
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
ARC Audio 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
ARC (Audio Return Channel)	Up to 6-channel audio
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 or OS2
Maximum Bandwidth	35 Gbps
Maximum Distance	300m (984 ft)
Signal Compression	None
Chassis and Environmental	
Product Construction	Painted aluminum
Product Dimensions (W*H*D)	145 mm (5.71 in) x 21.5 mm (0.85 in) x 90 mm (3.54 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	One year
Diagnostic LEDs	Link, Status, 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), DE-9 to 3-pin RS232 Cable (2 ea)

Transmitter Dimensional Drawings



Receiver Dimensional Drawings

