

Technical Specifications

TL-TP70-HD2ARC

Features at a Glance

- HDMI 2.0 supported
- 4K 40m, 1080p 70m transmission
- HDCP 2.2 compliant
- Bidirectional PoC (power from either the TX or the RX)
- ARC supported
- Bidirectional IR and RS232 support



The TL-TP70-HD2ARC is an extender set consisting of a transmitter and a receiver. The set transmits a 1080p signal to the receiver up to 70m via a shielded Cat5e/Cat6 cable. Bi-directional IR and RS232 communication is included to allow control of an IR or RS232 source or display. Bidirectional PoC power allows you to connect the power supply at either the transmitter or the receiver to power both units. The set also supports ARC, which enables audio up streaming from display to an audio system using either HDMI or the coax digital output.

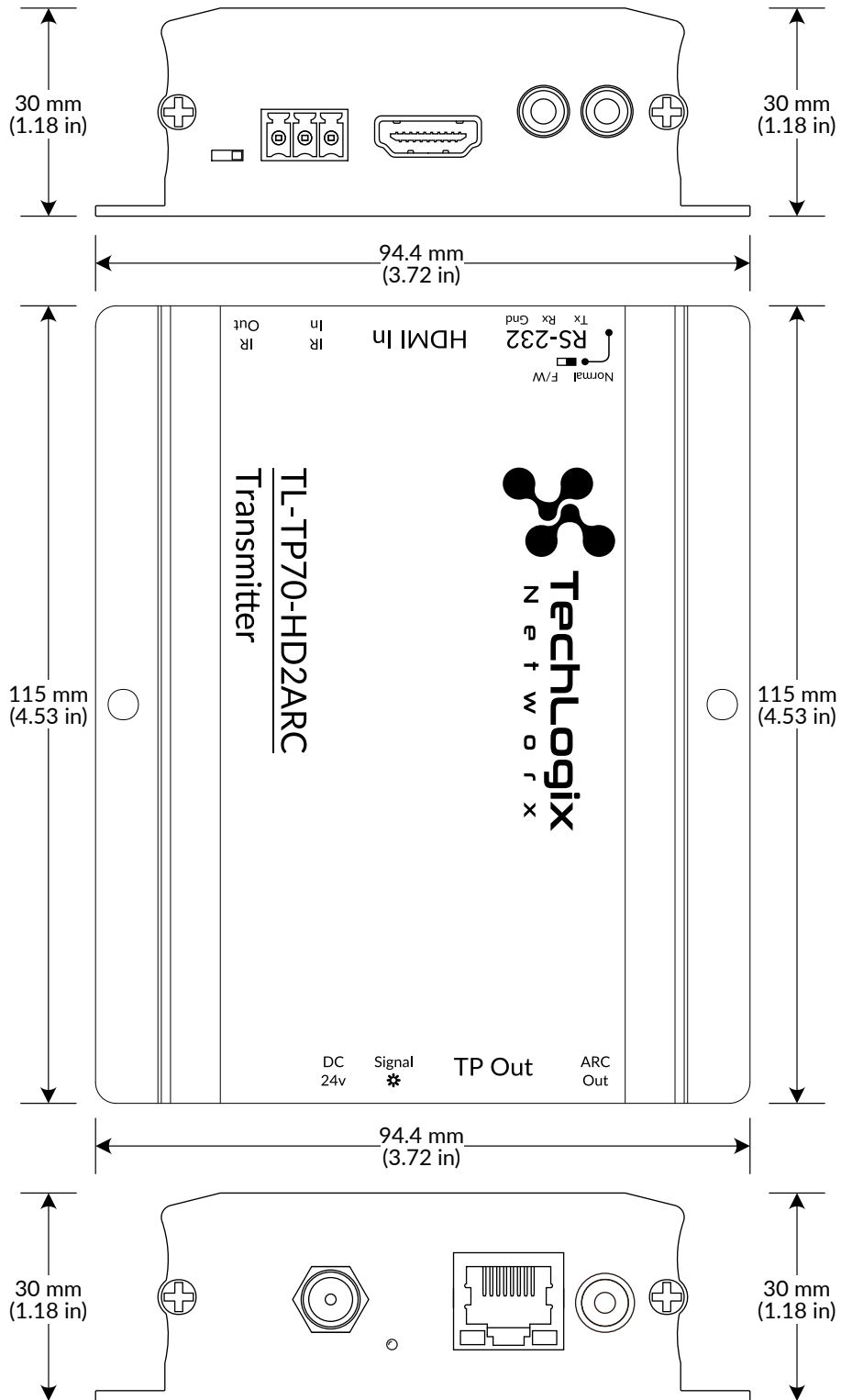
Specifications

I/O Connections - Transmitter	
RS232	3-pin removable screw terminal
HDMI In	HDMI type A connector
IR In	3.5mm stereo jack
IR Out	3.5mm mono jack
DC 24V	Barrel connector with locking screw
TP Out	8P8C (RJ45-style) connector
ARC Out	Coaxial RCA connector
I/O Connections - Receiver	
Firmware Update	Micro USB type B
RS232	3-pin removable screw terminal
HDMI In	HDMI type A connector
IR In	3.5mm stereo jack
IR Out	3.5mm mono jack
DC 24V	Barrel connector with locking screw
TP Out	8P8C (RJ45-style) connector
ARC Out	Coaxial RCA connector

Switches and Indicators - Transmitter	
Firmware Update	2-position tactile sliding switch
Power LED	Amber LED on 8P8C connector
Link LED	Green LED on 8P8C connector
Signal	Blue LED
Switches and Indicators - Receiver	
Firmware Update	2-position tactile sliding switch
Power LED	Amber LED on 8P8C connector
Link LED	Green LED on 8P8C connector
Signal	Blue LED
AV Mute	2-position tactile sliding switch
Supported Video, Audio, and Control	
Maximum Distances	1080p/720p: 70m (230 ft.) 4K@30/10G: 40m (130 ft.) 4K@60/18G: 40m 130 ft.)
Maximum Video Compatibility	4K@60Hz 4:4:4 HDR supported
Video Compliance	HDMI 2.0, HDCP 2.2, and CEC (Consumer Electronics Control)
HDCP Compatibility	HDCP 2.2 Conversion – output version matches sink (display) version
Embedded Audio (HDMI)	Up to PCM 8 channel, Dolby Digital TrueHD, and DTS-HD Master Audio
Input DDC Signal	5.0 volts p-p (TTL)
Input Video Signal	0 to 1.2 volts p-p
IR Carrier Frequency Range	20-60kHz at 5 volts
RS232 Supported Data Rate	Full-duplex up to 115200 baud
Twisted Pair Signal Characteristics	
Maximum Distance 1080p (4K)	70m (230 ft.), (40m [130 ft.])
Cable Requirements	Solid core shielded Category 5e, Category 6 or greater with TIA/EIA-568B crimp pattern
Bandwidth	Up to 18 Gbps
Compression Signal Characteristics	
Compression ratio	Up to 2:1 (adaptive for signals above 10.2gbps)
Compression type	Color Space Conversion (VLC)
Chassis and Environmental	
Enclosure	Painted aluminum
Dimensions	115mm x 94.4mm x 30mm
Operating Temperature (Environment)	0° to +40° C
Operating Humidity (Environment)	20% to 90% (non-condensing)
Storage Temperature (Environment)	-20° to +60° C
Storage Humidity (Environment)	20% to 90% (non-condensing)
Power, ESD, Regulatory	
Maximum Power Consumption	15W (max)
Power Supply	24V DC, 1 A
ESD Protection	Human body model – ±15kV (air-gap discharge) & ±8kV (contact discharge)
Regulatory	CE, FCC
Other	
Standard Warranty	3 Year
Diagnostic Indicators	Signal LED
Network Indicators	Link Speed and Activity
Included Items	Power Supply, IR Transmitter, IR Receiver, 3-pin Terminal Block Connector (2 ea)

Dimensional Drawings

Transmitter



Receiver

