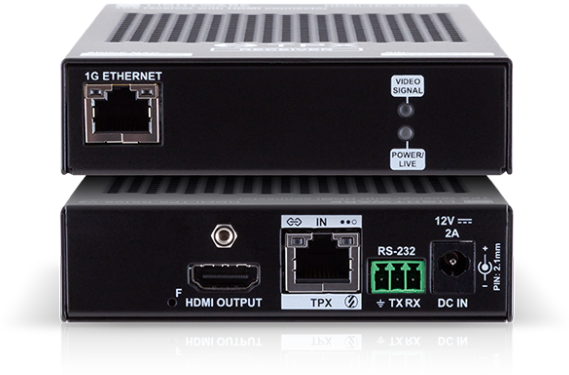
HDMI 2.0 over Direct-link SDVoE receiver

As the successor to the HDMI-TPX-RX106, this Direct-link SDVoE HDMI 2.0 extender receiver is designed to extend HDMI signals over a single CATx cable up to 100 m, supporting resolutions up to UHD/4K@60Hz 4:4:4 (18 Gbps) with HDCP support and PoC (Power over Cable) capability.



Details

Video performance and compatibility

The HDMI-TPX-RX106-V2 provides reliable HDMI 2.0 signal extension for professional AV applications, supporting video resolutions up to UHD/4K@60Hz 4:4:4 with 18 Gbps bandwidth and a maximum pixel clock of 600 MHz. The device is compatible with HDMI 2.0, HDMI 1.x and DVI signals, and supports HDCP 1.x and HDCP 2.3.

Control interfaces and connections

For control and user data, it offers a 1000Base-T RJ-45 Ethernet interface and an RS-232 connection on a 3-pole Phoenix connector with 4800–115200 baud rates (default 9600, 8, N, 1). Video output is provided on an HDMI Type A connector (with screw locking option).

V2 hardware updates

This V2 model is not a new extender generation; it is a hardware platform update that keeps the device's core functionality and system role unchanged. The V2 version features an updated housing design with an approximate depth of 151 mm (around 20 mm deeper than the previous version). Minor connector and status LED layout adjustments may also be present, so mechanical fit and connector clearance should be verified when replacing earlier units in existing installations. The IR output connector is not included on the V2 model in line with the streamlined V2 hardware platform design.

Features

- **Supports HDMI 4K signal formats** 4K UHD @60Hz RGB 4:4:4, up to 18 Gbps
- **Bi-directional PoC remote powering**
- **Extends HDMI 2.0** audio, Ethernet, RS-232 up to 100m over one CATx cable
- **HDR and Low Latency Dolby Vision support**

HDMI-TPX-RX106-V2

SKU: 91710019

Specifications

General	Compliance	CE, UKCA
	EMC (emission)	EN 55032:2015+A1:2020
	EMC (immunity)	EN 55035:2017+A11:2020
	RoHS	EN 63000:2018
	Electrical safety	EN 62368-1:2024
	Warranty	3 years
	Cooling	Passive
	Operating temperature	0 to +50˚C (+32 to +122˚F)
	Storage temperature	-40° to +85˚C (-40° to +185˚F)
	Operating humidity	10% to 90%, non-condensing
Power	Power supply option	External power adaptor
	Supported power source	100-240 V AC; 50/60 Hz
	Supplied power	12V DC, 2A
	AC power plug	Interchangable (EU, UK, JP/US, AUS/NZ)
	DC power plug	Locking DC connector (2.1 mm pin)
	Power consumption - without remote power	7 W
	Power consumption - with remote power	16 W
	Heat dissipation - without remote power	23.9 BTU/h
	Heat dissipation - with remote power	54.6 BTU/h
Enclosure	Rack mountable	Yes, with mounting accessories
	Enclosure material	1 mm steel
	Dimensions in mm	100.4 W x 151.8 D x 26 H
	Dimensions in inch	3.95 W x 6 D x 1 H
	Weight	476 g (1.05 lbs)
Video Input		
TPX Input	Connector type	RJ45 female connector
	Power over Ethernet	PoC (Power over Copper - only between TPX-106 series devices)
	Data rate	10GBase-T
	Compliance	SDVoE
	HDCP compliance	HDCP 2.3
	Transferred signals	Video, Audio, RS-232, Infrared, Ethernet, CEC
	Color space	RGB, YCbCr
	Video latency	0 frame (five lines / under 8ms)
	Compression ratio	1.4 to 1 *
	Supported resolutions at 8 bits/color **	up to 4096x2160@60Hz (4:4:4) or up to 3840x2160@60Hz (4:4:4)
	Audio formats	8 channel PCM, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos, DTS, DTS-HD Master Audio 7.1, WMA Pro

Specifications

Video Outputs		
HDMI Output	Connector type	19-pole HDMI Type A receptacle
	Standard	DVI 1.0, HDMI 1.4, HDMI 2.0
	Supported resolutions at 8 bits/color **	up to 4096x2160@60Hz (4:4:4) or up to 3840x2160@60Hz (4:4:4)
	Audio formats	8 channel PCM, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos, DTS, DTS-HD Master Audio 7.1, WMA Pro
	CEC support	Transparent

* Compression is applied only if the AV signal exceeds the maximum bandwidth offered by the HDMI1.4 specification.
** All standard VESA, CEA and other custom resolutions up to 600MHz (HDMI 2.0) are supported.

Control Ports		
Ethernet Port	Connector type	RJ45 female connector
	Number of connectors per unit	1
	Ethernet data rate	1GBase-T, full duplex with autodetect
	Power over Ethernet	Not supported
Control	Connector type	3-pole Phoenix® connector
	Number of ports	1
	Baud rates	between 9600 and 115200 baud
	Data bits	8
	Parity	None / Odd / Even
	Stop bits	1 / 2
	Output voltage: Low level	from 3V to 15V
	Output voltage: High level	from -15V to -3V