HDMI-TPN-TX/RX107

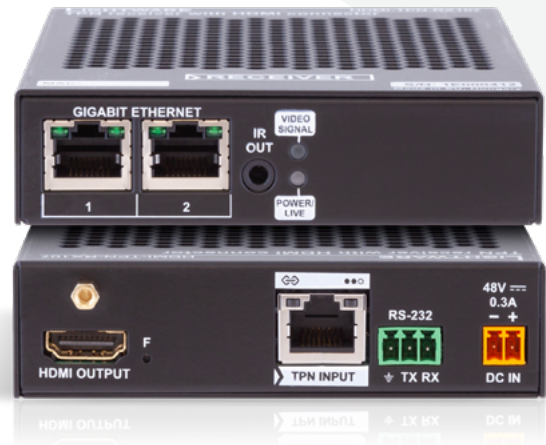## HDMI-TPN-TX107
SDVoE compatible HDMI 2.0 transmitter

SKU: 52801648

HDMI-TPN-RX107
SDVoE compatible HDMI 2.0 receiver

SKU: 52801649

Bring Collaboration Spaces to the Next Level

The **HDMI-TPN-TX107** and **HDMI-TPN-RX107** transmitter and receiver devices with SDVoE technology are Lightware's newest development allowing users to extend HDMI 2.0 signals up to 4K60 4:4:4 video resolution from a single source to multiple destinations through 10G Ethernet networks.

Beyond the benefits of sending high-resolution video over long distances, the extenders are also capable of handling various connectivity standards, including a 1G user Ethernet channel over the 10G link, as well as command injection into IR and RS-232.

The additional Gigabit Ethernet port is also a valuable addition, allowing users to connect an additional device to the network directly through the TPX extender. This is particularly useful for controlling external devices like projectors and displays.

HDCP 2.3 and basic EDID management functionality are also among the features offered by these devices, such as their connectivity and easy integration into a wide range of AV operations and with 3rd party devices, such as the Christie Terra projector.

When using direct connection in point-to-point mode, both the transmitter and receiver are compatible with Lightware's TPX family of products.

Features

- **Allows for the transmission of HDMI 2.0, embedded audio, Ethernet, IR, and RS-232 to multiple receiver devices through a 10G Ethernet switch**
- **Supports HDMI 4K signal formats (4K UHD @60Hz RGB 4:4:4, up to 18 Gbps)**
- **Can be remote powered through CATx cable (PoE PD) from the 10G switch**
- **HDR and Low Latency Dolby Vision support**
- **Plug&Play compatible with Lightware TPX devices**
- HDCP 2.3 compliant
- Ethernet extension (1 Gbps)
- Command injection through IR
- Command injection through RS-232
- Compatible with third-party SDVoE devices and controllers

HDMI-TPN-TX107 Specifications

Power	Power supply option		Power adaptor / PoE
	Power consumption (max)		8.1W
	Heat dissipation		27.6 BTU/h (max)
	Power over Ethernet (PoE)		via TPN output (IEEE802.3af) (can receive power)
	Power adaptor	Supported power source	100-240 V AC; 50/60 Hz
		Supplied power	48V DC, 0.83A
		AC power plug	Interchangable (EU, UK, JP/US, AUS/NZ)
		DC power plug	2-pole Phoenix, orange
Enclosure	Rack mountable		No
	Enclosure material		1 mm steel
	Dimensions in mm		100.4 W x 137.8 D x 26 H
	Dimensions in inch		3.95 W x 5.43 D x 1.02 H
	Weight		0.476 kG
Video Inputs	HDMI input	Connector type	19-pole HDMI Type A receptacle
		A/V standard	DVI 1.0, HDMI 1.4, HDMI 2.0
		HDCP compliance	HDCP 2.3
		Color space	RGB, YCbCr
		Video delay	0 frame
		Supported resolutions at 8 bits/color *	up to 4096x2048@60Hz (4:4:4), up to 3840x2160@60Hz (4:4:4) 4096x2048@60Hz (4:2:2) up to 10 bits/color
		Reclocking	Pixel Accurate Reclocking
		3D support	yes
		Audio formats	All HDMI 2.0 formats including multi-channel PCM, Dolby True-HD and DTS-HD master audio
	EDID management	EDID emulation	yes, default EDID and 1 locally stored EDID
		EDID memory	1 stored EDID
		Supported standard	EDID v1.3
Video Outputs	TPN output	Connector type	RJ45 connector
		Power over Ethernet (PoE)	IEEE 802.3af (PD)
		Compliance	SDVoE
		HDCP compliance	HDCP2.3
		Transferred signals	Video, Audio, RS-232, Infrared, Ethernet
		Color space	RGB, YCbCr
		Video delay	0 frame
		Supported resolutions at 8 bits/color *	up to 4096x2048@60Hz (4:4:4), up to 3840x2160@60Hz (4:4:4) 4096x2048@60Hz (4:2:2) up to 10 bits/color
		Audio formats	All HDMI 2.0 formats including multi-channel PCM, Dolby True-HD and DTS-HD master audio
Control Ports	RS-232 serial port	Connector type	3-pole Phoenix connector
		Baud rates	Between 4800 and 115200 Baud
		Data bits	8 or 9
		Parity	None / Odd / Even
		Stop bits	1 / 1.5 / 2
	Ethernet port	Connector type	RJ45 female connector (2)
		Ethernet data rate	10/100/1000Base-T, full duplex with autodetect
		Power over Ethernet (PoE)	No
	Infrared port	Output connector type	3.5 mm TS (approx. 1/8" jack)
		Input carrier frequency	38 kHz
		Output signal	modulated (38kHz)

HDMI-TPN-RX107 Specifications

Category	Subsection	Property	Value
Power		Power supply option	Power adaptor / PoE
		Power consumption (max)	TBD
		Heat dissipation	TBD
		Power over Ethernet (PoE)	via TPN output (IEEE802.3af) (can receive power)
	Power adaptor	Supported power source	100-240 V AC; 50/60 Hz
		Supplied power	48V DC, 0.83A
		AC power plug	Interchangable (EU, UK, JP/US, AUS/NZ)
		DC power plug	2-pole Phoenix, orange
Enclosure		Rack mountable	No
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