

AVX (non-switchable) HDMI 2.0 extender



HDMI-TPX-TX106



HDMI-TPX-RX106

Part No: 9158 0001



The HDMI-TPX-TX106 and HDMI-TPX-RX106 extenders with AVX technology are Lightware's newest development and a natural progression from the widely popular HDMI-TPS-TX/RX96 series, allowing users to extend HDMI 2.0 signals up to 4K60 4:4:4 video resolution through a single CATx cable over distances up to 100 meters.

Beyond the benefits of sending high-resolution video over long distances, the extenders are also capable to handle various connectivity standards, including bi-directional RS-232, command injection over IR (output only) as well as sending and receiving PoC remote powering.

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.

Highlight 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
- Bi-directional RS-232 extension (pass-through)
- HDCP 2.3 compliant (transparent pass-through)
- Ethernet extension (1 Gbps)
- HDMI 2.0 end-to-end extension
- Great price/value balance
- Command injection through IR

HDMI-TPX-TX/RX106

Video

Resolution	Up to UHD/4k@60Hz 4:4:4
Signal Type	HDMI 2.0, HDMI 1.x, DVI
Maximum data rate	18 Gbps
Maximum pixel clock	600 MHz
Content protections	HDCP 1.x, HDCP 2.3
Connector type	1x HDMI receptacle type A with screw locking option
	TX106: 1x HDMI input RX106: 1x HDMI output
Standards	HDMI 2.0, HDMI 1.4, DVI

Ethernet

Control & User Data	2x 1000Base-T via RJ-45
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RS232

Connector type	1x 3Pin Phoenix
Symbol rate	between 4800 and 115200 baud
Configuration	Data bits: 7 or 8
	Parity: none, odd or even
	Stopbits: 1 or 2

IR

Connector type	3.5mm connector (1/8" mini-jack) (output only!)
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EDID management (TX106)	1x pass-through or 1x stored (learned) EDID selected by the push button
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General

Powering	External 36W (12V, 3A) power supply	and PoC remote power receiving and PoC remote power sending
Power consumption (max)		TBD
Thermal dissipation (max)		TBD
Weight		TBD
Operating conditions	Ambient temperature	0-50oC
	Relative humidity	0-90% (non-condensing)
Transportation conditions	Ambient temperature	-20-70oC
	Relative humidity	0-95% (non-condensing)

Compliance	CE
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Warranty	3 years
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