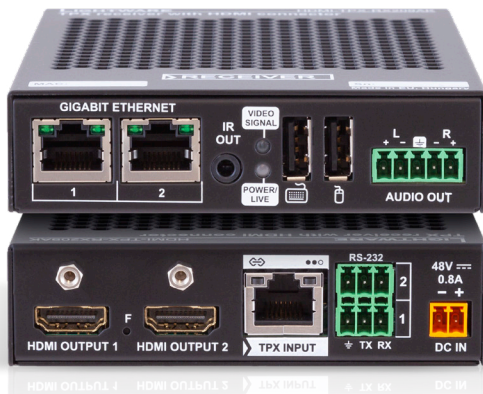


# HDMI-TPX-TX/RX209AK

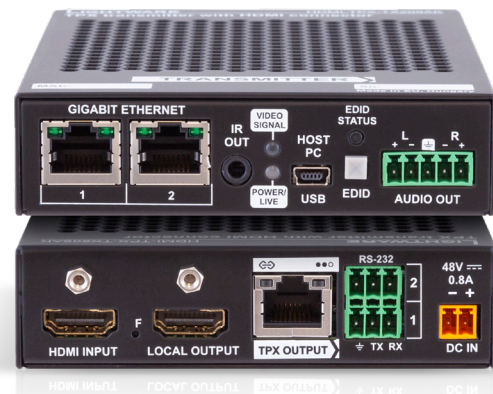
AVX (non-switchable) HDMI 2.0 extender



**HDMI-TPX-RX209AK**

SKU 91580006

Front and Back



**HDMI-TPX-TX209AK**

SKU 91580007

Front and Back

## Details

The **HDMI-TPX-TX209AK** and **HDMI-TPX-RX209AK** 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.

The **HDMI-TPX-TX209AK** features a stereo analog audio output for audio content generated from the audio in the input HDMI stream for feeding local audio receivers. A local HDMI video connector for monitoring or loop-through connection is also a valuable addition that makes this device even more versatile.

Beyond the benefits of sending high-resolution video over long distances, the extenders are also capable to handle various connectivity standards, including **USB-HID** for extending keyboard and mouse, **bi-directional RS-232**, command injection over IR (output only) **as well as sending and receiving PoE 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 3<sup>rd</sup> party devices, such as the Christie Terra projector.

## Highlighted 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)**
- **Great price/value balance**
- **HDMI 2.0 end-to-end extension**
- **Ethernet extension (1 Gbps)**
- **Command injection through IR**



# HDMI-TPX-TX/RX209AK

## Specifications

Video Outputs			
<b>HDMI output</b>	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	
	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		
<b>TPX output</b> (HDMI-TPX-TX209AK)	Connector type	RJ45 connector	
	Power over Ethernet (PoE)	yes (IEEE 802.3af) (can send and receive power)	
	Compliance	SDVoE	
	HDCP compliance	HDCP2.3	
	Transferred signals	Video, Audio, RS-232, Infrared, Ethernet	
	Color space	RGB, YCbCr	
	<b>TPX input</b> (HDMI-TPX-RX209AK)	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		

Analog audio output	
Connector type	5-pole Phoenix connector
Audio formats	2-ch PCM
Sampling frequency	48 kHz
Volume	-78 dB - 0 dB
Balance	0 - 100 (50 = center)
Nominal Differential Output Level @ 0 dB Gain	+4 dBu
Nominal Differential Output Level @ 3 dB Gain	+7 dBu

# HDMI-TPX-TX/RX209AK

## Specifications

Control Ports		
<b>RS-232 serial port</b>	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
<b>Ethernet port</b>	Connector type	RJ45 female connector (2x)
	Ethernet data rate	10/100/1000Base-T, full duplex with autodetect
<b>Infrared port</b>	Output connector type	3.5 mm TS (approx. 1/8" jack)
	Input carrier frequency	38 kHz
	Output signal	modulated (38kHz)
<b>USB port</b>	Connector type	mini-B type
	USB compliance	USB 2.0
	Device class	HID

Enclosure	
Rack mountable	Yes, 4U high
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

