

AVG-PEX100KVM-8K30

8K 100M HDBaseT Extender with USB 2.0, RS-232 & PoC



This AVönic product is an 8K transmitter and receiver kit with HDCP 2.3 compatibility. It supports resolutions up to 8K@60Hz 4:2:0, 8K@30Hz 4:4:4, and 4K@120Hz, allowing 8K video and USB 2.0 signals to be extended up to 100m/328ft over a Cat 6/6A/7 cable.

Features

- AVon-Link technology simplifies audio & video routing and enhances system flexibility and ease of use.
- Supports HDMI 2.1 with resolutions up to 8K@60Hz 4:2:0, 8K@30Hz 4:4:4 and 4K@120Hz.
- HDCP 2.3 compliant.
- Supports HDR10.
- Supports USB 2.0 extension.
- Supports one-way PoC, allowing a single power adapter at the receiver to power both units.
- Transmits signals up to 100m/328ft over a single Cat 6/6A/7 cable.
- Includes a DIP switch on each for RS-232 mode, as well as HDCP and EDID configurations (HDCP & EDID apply to the transmitter only).
- Bi-directional RS-232 passthrough.

Specifications

Technical	
Input/Output Signal Type	HDMI 2.1, HDCP 2.3
	<p>VESA:</p> <p>800 x 6006, 1024 x 7686, 1280 x 7686, 1280 x 8006, 1280 x 9606, 1280 x 10246, 1360 x 7686, 1366 x 7686, 1440 x 9006, 1600 x 9006, 1600 x 12006, 1680 x 10506, 1920 x 12006, 2048 x 11526, 2560 x 14406, 5120 x 14406, 5120 x 21606</p>
Input/Output Resolutions	<p>HDTV:</p> <p>1280 x 720P5,6,7,8, 1920 x 1080P5,6,7,8,9,10,11,</p>

Supported	<p>3840 x 2160P1,2,3,4,5,6,7,8, 4096 x 2160P1,2,3,4,5,6,7,8, 7680 x 4320P1,2,3,4,5,6 1 = at 24 (23.98) Hz, 2 = at 25 Hz, 3 = at 30 (29.97) Hz, 4 = at 48 Hz, 5 = at 50 Hz, 6 = 60 (59.94) Hz, 7 = at 100Hz, 8 = at 120Hz, 9 = at 144Hz, 10 = at 165Hz, 11 = at 240Hz</p> <p>Note: 7680 x 4320P @48Hz/50Hz/60Hz supports only YCbCr 4:2:0.</p>
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Technical	
Maximum Data Rate	<p>HDMI: 40Gbps USB 2.0: 255Mbps HDMI IN/OUT: Supports multichannel audio up to PCM 7.1, including PCM 2.0/5.1/7.1ch,</p>
Audio Formats	Dolby Digital, Dolby Digital Plus, Dolby
Supported	<p>TrueHD, Dolby Atmos, DTS 5.1, DTS-HD Master Audio and DTS:X AUDIO OUT: PCM 2.0</p>

General	
Operating Temperature	0°C to 45°C (32°F to 113°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	10% to 90%, non-condensing
ESD Protection	<p>Human-body Model: ±8kV (Air-gap discharge)/ ±4kV (Contact discharge)</p>
Power Supply	DC 12V 3A
Power Consumption (Max)	25W (Pair, via PoC)
Device Dimension (W x H x D)	<p>145mm × 25mm × 90.2mm/ 5.71" x 0.98" x 3.55" each for TX/RX</p>
Product Weight	0.39kg/0.86lb each for TX/RX

Transmission Distance


Note: A T568B straight-through Category cable is recommended.

Cable Type	Range	Supported Video
Cat 6/6A/7	100m/328ft	8K@60Hz 4:2:0 8K@30Hz 4:4:4
Cat 5e	90m/295ft	8K@60Hz 4:2:0 8K@30Hz 4:4:4
HDMI	Input/Output: 10m/33ft	4K@30Hz, 1080P@60Hz
	Input: 5m/16ft Output: 10m/33ft	4K@60Hz
	Input/Output: 3m/10ft	8K@60Hz 4:2:0



Contact


Head Office

 Rose Gate Common, Livermore, CA-94551

 +1 (470) 301-0555

 [Avonicgroup.com](https://www.avonicgroup.com)

Branch Office

 Curtis House, 34 Third Avenue, Brighton
& Hove, Hove BN3 2PD, UK

 Strada Vasile Conta 6,
Bucureşti, 020953, Romania

 Jumeirah Lake Towers, Dubai, UAE