

AVG-PWEX40-KVMW004

1-gang 4K wall-plate transmitter and 4K receiver kit with USB and RS232



This Avönic product is a 1-gang wall plate transmitter and receiver extender kit supporting resolutions up to 4K@60Hz 4:2:0 8bit with HDCP 2.2 compliance. It can transmit 4K signals up to 35m/115ft over a single Cat 5e/6 cable and up to 40m/131ft using a Cat 6A/7 cable. Featuring one-way Power over HDBaseT (PoH), the transmitter can be powered directly by the receiver. Additionally, the transmitter supports USB and RS232 pass-through over HDBaseT and allows firmware upgrades via the RS232 port.

Features

- AVon-Link technology simplifies audio & video routing and enhances system flexibility and ease of use.
- HDMI 1.4 with 4K@60Hz 4:2:0 8bit and HDCP 2.2 compatibility.
- Transmits 4K signal up to 35m/115ft and 1080P signal up to 60m/197ft via a single Cat 5e/6 cable.
- Transmits 4K signal up to 40m/131ft for 4K and 1080P signal up to 70m/230ft via a single Cat 6A/7 cable.
- Provides USB Device ports with high power, for supporting higher power USB devices connected.
- Supports analog audio de-embedding on the RX.
- Supports one-way PoH, the transmitter can be powered by the receiver.
- Supports USB pass-through and RS232 pass-through via HDBT port.
- Supports FW update.

Specifications

Technical	
Input/Output Port	<p>Transmitter: 1 x HDMI IN, 1 x HDBT OUT, 1 x RS232, 1 x USB HOST, 1 x DIP Switch, 1 x DC 12V IN (2-Pin Phoenix Connector)</p> <p>Receiver: 1 x HDBT IN, 1 x HDMI OUT, 2 x AUDIO OUT (One for De-embed and another one for Pass-through), 4 x USB DEVICE, 1 x RS232, 1 x DC 12V IN</p>
Input/Output Audio formats Supported	<p>HDMI: Supports multi-channel audio formats, including PCM 2.0/5.1/7.1, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio and DTS:X</p>

<p>Input/Output Resolution Supported</p>	<p>VESA: 800x6008, 1024x7688, 1024x7688, 1280x7688, 1280x8008, 1280x9608, 1280x10248, 1360x7688, 1366x7688, 1400x10508, 1440x9008, 1600x9008, 1600x12008, 1680x10508, 1920x12008</p> <p>SMPTE: 1280x720P1,2,3,4,5,6,7,8, 1920x1080I6,8, 1920x1080P1,2,3,4,5,6,7,8, 3840x21602,3,5,6,8, 4096x21602,3,5,6,8 1 = at 23.98 Hz, 2 = at 24 Hz, 3 = at 25 Hz, 4 = at 29.97 Hz, 5 = at 30 Hz, 6 = at 50 Hz, 7 = at 59.94 Hz, 8 = at 60 Hz</p> <p>NOTE: 4096x2160/3840x2160@50Hz/60Hz is based on chroma sub-sampling 4:2:0 8-bit only</p>
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<p>Technical</p>	
	<p>AUDIO OUT: Stereo</p>
<p>Maximum Data Rate</p>	<p>10.2Gbps</p>
<p>Maximum Pixel Clock</p>	<p>340MHz</p>

<p>General</p>	
<p>Operating Temperature</p>	<p>0°C to 45°C (32°F to 113°F)</p>
<p>Storage Temperature</p>	<p>-20°C to 70°C (-4°F to 158°F)</p>
<p>Humidity</p>	<p>10% to 90%, non-condensing</p>
<p>ESD Protection</p>	<p>Human-body Model: ±8kV (Air-gap discharge)/ ±4kV (Contact discharge)</p>
<p>Power Supply</p>	<p>DC 12V/3A, with PoH function, the transmitter can be powered by the receiver</p>

Power Consumption (Max)	13.44W
Device Dimension (W x H x D)	Transmitter: 45mm x 45.3mm x 105.6mm/ 1.77" x 1.78" x 4.16" Receiver: 210mm x 25mm x 90.2mm/8.27" x 0.98" x 3.55"
Product Weight	Transmitter: 0.16kg/0.35lb Receiver: 0.46kg/1.01lb


Transmission Distance

Cable Type	Range	Supported Video
Cat 5e/6	60m/197ft	1080P@60 36bpp
Cat 6A/7	70m/230ft	
Cat 5e/6	35m/115ft	4K@30Hz 4:4:4 24bpp 4K@60 4:2:0 24bpp
Cat 6A/7	40m/131ft	
HDMI	Input/Output: 15m/49ft	1080P@60Hz
	Input: 5m/16ft Output: 15m/49ft	4K@30Hz 4:4:4 24bpp 4K@60Hz 4:2:0 24bpp



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