

AVG-PWEX40-4KW003

1-Gang HDMI Wall-Plate Transmitter and Receiver Kit



This AVönic product is a one-gang wall plate transmitter and receiver kit that can extend 4K signal up to 35m/115ft via a Cat 5e/6 cable and up to 40m/131ft via a Cat 6A/7 cable. The transmitter can be powered by the receiver through one-way PoC. Additional features like USB 2.0 and RS-232 passthrough as well as firmware update, are also included.

Features

- AVon-Link technology simplifies audio & video routing and enhances system flexibility and ease of use.
- 1-Gang US wall plate design.
- HDMI 1.4 with 4K@60Hz 4:2:0 8bit.
- HDCP 2.2 compliant.
- Supports signal transmission up to 35m/115ft for 4K and 60m/197ft for 1080P via a single Cat 5e/6 cable.
- Supports signal transmission up to 40m/131ft for 4K and 70m/230ft for 1080P via a single Cat 6a/7 cable.
- One-way PoC that enables the transmitter to be powered by the receiver.
- High power USB-A port for connection with high power USB peripheral.
- USB 2.0 and RS-232 passthrough over HDBaseT.
- Supports firmware update through RS-232 port.

Specifications

Transmitter

Technical	
Input/Output Port	1 x HDMI IN, 1 x DC 12V, 1 x HDBT OUT, 1 x USB HOST, 1 x RS-232
Audio Formats	Supports multi-channel audio formats, including PCM 2.0/5.1/7.1, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio and DTS:X
Maximum Data Rate	10.2Gbps

Maximum Pixel Clock	340MHz
Input/Output Resolutions	<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>

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	Human-body Model: ±8kV (Air-gap discharge) / ±4kV (Contact discharge)
Power Supply	<ul style="list-style-type: none"> PoC (Powered by the receiver) DC 12V 2A (optional)

General	
Power Consumption (Max)	13.5W (for the extender kit)
Device Dimension (W x H x D)	45mm x 105.6mm x 45.3mm / 1.77" x 4.16" x 1.78"
Product Weight	0.20kg/0.44lb

Receiver

Technical	
Input/Output Port	2 x DC 12V IN, 1 x HDMI OUT, 1 x RS-232, 1 x USB-A
Input/Output Resolutions	<p>VESA 800x6008, 1024x7688, 1280x7688, 1280x8008, 1360x7688, 1366x7688, 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;</p> <p>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>
Maximum Pixel Clock	340MHz
Maximum Data Rate	10.2Gbps
Audio Formats	Supports multichannel audio formats up to PCM 2.0/5.1/7.1, Dolby TrueHD and DTS-HD Master Audio

General	
Operating Temperature	0°C to 45°C (32°F to 113°F)

General	
Power Consumption (Max)	13.5W (for the extender kit)
Device Dimension (W x H x D)	45mm x 105.6mm x 45.3mm / 1.77" x 4.16" x 1.78"
Product Weight	0.20kg/0.44lb

Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	10% to 90%, non-condensing
ESD Protection	Human-body Model: ±8kV (Air-gap discharge) / ±4kV (Contact discharge)
Power Supply	DC 12V 2A
Power Consumption (Max)	13.5W (for the extender kit)
Device Dimension (W x H x D)	45mm x 105.6mm x 66.3mm / 1.77" x 4.16" x 2.61"
Product Weight	0.22kg/0.48lb

Transmission Distance

Note: Straight-through category cable wired to T568B standard is recommended.

Cable Type	Range	Supported Video
Cat 5e/6	60m/200ft	1080P@60Hz 36bpp
	35m/115ft	1080P@60Hz 48bpp 4K@60Hz 4:2:0
Cat 6a/7	70m/230ft	1080P@60Hz 36bpp
	40m/130ft	1080P@60Hz 48bpp 4K@60Hz 4:2:0 24bpp


General	
Power Consumption (Max)	13.5W (for the extender kit)
Device Dimension (W x H x D)	45mm x 105.6mm x 45.3mm / 1.77" x 4.16" x 1.78"
Product Weight	0.20kg/0.44lb



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