

## AVG-PEX40-4KW001

### 1-Gang 40m&70m HDMI Wall-Plate with RS-232 & IR



This AVönic 1-gang wall-plate transmitter is designed for use with an HDBT receiver and supports resolutions up to 4K@60Hz with 4:2:0 8-bit color depth, fully compatible with HDCP 2.2. It can transmit 4K signals up to 35 meters (115 feet) over a single Cat 5e/6 cable, and up to 40 meters (131 feet) with a Cat 6a/7 cable. With Power over Cable (PoC) functionality, the transmitter can be powered by a compatible receiver with a PSE module.

Additionally, the transmitter supports CEC, RS-232, and one-way IR passthrough over the HDBT connection, and allows for firmware upgrades via the RS-232 port.

## Features

**AVon-Link technology simplifies audio & video routing, enhancing system flexibility and ease of use.**

- HDMI 1.4 compliant, supporting 4K@60Hz 4:2:0 8-bit video and HDCP 2.2.
- Signal transmission up to 35m/115ft for 4K and 60m/197ft for 1080P over a single Cat 5e/6 cable.
- Signal transmission up to 40m/131ft for 4K and 70m/230ft for 1080P via a single Cat 6a/7 cable.
- Supports one-way Power over Cable (PoC), allowing the receiver with a PSE module to power the transmitter.
- Supports one-way IR passthrough from the transmitter to the receiver.
- Supports CEC and RS-232 passthrough via the HDBT port.
- Allows firmware upgrades through the RS-232 port, with configuration via the DIP switch.

## Specifications

Technical	
Input/Output Port	1 x HDMI IN, 1 x HDBT OUT, 1 x RS-232, 1 x IR IN, 1 x DIP Switch, 1 x DC 12V IN (2-Pin Phoenix Connector)
Input/Output Resolutions	<b>VESA:</b> 800x6008, 1024x7688, 1024x7688, 1280x7688, 1280x8008, 1280x9608, 1280x10248, 1360x7688, 1366x7688, 1400x10508, 1440x9008, 1600x9008, 1600x12008, 1680x10508, 1920x12008

Input/Output Resolutions	<b>SMPTE:</b> 1280x720P1,2,3,4,5,6,7,8, 1920x1080I6,8, 1920x1080P1,2,3,4,5,6,7,8, 3840x2160I2,3,5,6,8, 4096x2160I2,3,5,6,8 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 60Hz
	<b>Note:</b> 4096x2160/3840x2160@50Hz/60Hz is based on chroma sub-sampling 4:2:0 8-bit only
Input/Output 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

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:

General	
	±8kV (Air-gap discharge) / ±4kV (Contact discharge)
Power Supply	DC 12V 2A, PoC supported (transmitter powered by receiver)

Power Consumption (Max)	8.01W
Device Dimension (W x H x D)	45mm x 45.3mm x 105.6mm / 1.77" x 1.78" x 4.16"
Product Weight	0.16kg / 0.35lb

## Transmission Distance


**Note: T568B straight-through Category cable is recommended for optimal performance.**

Cable Type	Range	Supported Resolutions
CAT5e/6	60m/197ft	1080P@60 36bpp
CAT6a/7	70m/230ft	
CAT5e/6	35m/115ft	4K@60 4:2:0 24bpp
CAT6a/7	40m/131ft	
HDMI	Input/Output: 15m/50ft	1080P@60Hz 36bpp
	Input/Output: 10m/33ft	4K@60Hz 4:2:0 24bpp



# 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