

AVG-PWEX100 -4KW002

1-Gang 70m&100m 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 70 meters (230 feet) over a single CAT5e/6 cable, and up to 100 meters (328 feet) with a CAT6a/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 and enhances 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 70m/230ft for 4K and 100m/328ft for 1080P over a single CAT5e/6 cable.
- Signal transmission up to 100m/328ft for 1080P and 4K via a single CAT6a/7 cable.
- Supports one-way Power over Cable (PoC), allowing the receiver with 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	<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>

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

General

ESD Protection	Human-body Model: ±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


Cable Type	Range	Supported Resolutions
CAT5e/6/6a/7	100m/328ft	1080P@60 36bpp
CAT5e/6	70m/230ft	4K@60 4:2:0 24bpp
CAT6a/7	100m/328ft	
HDMI	Input/Output: 15m/50ft	1080P@60Hz 36bpp
	Input/Output: 10m/33ft	4K@60Hz 4:2:0 24bpp

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



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