

## AVG-PEX100KVM-4K60

### 100m 4K HDBaseT 2.0 Extender



This AVönic is a 100m 4K HDBaseT 2.0 Extender, and offers the distribution of uncompressed 4K@60Hz UHD video, Analog stereo, Power, RS232 and USB 2.0 up to 100m/330ft over a single Cat 6 or above cable.

With USB 2.0 pass-through and USB Host in TX, USB Devices in RX, it provides solutions where remote users want to control PC sources with keyboard and mouse, interactive display operation, data transmission or USB streaming device over distance is required. Additional features include bi-directional 3.5mm stereo pass-through.

With 48V PoH integrated inside, it just needs one power supply connected to TX to power both units. Its 12V power supply is secured with a screw-on connector to prevent the power being accidentally disconnected, with LED indication for visual power supply to units and signal status to show established connection between connected devices.

## Key Features

- AVon-Link technology simplifies audio & video routing and enhances system flexibility and ease of use.
- Via Cat 6/6a/7 cables, 4Kx2K@60Hz output up to 100m, while 1080P@60Hz up to 100m.
- Via Cat 5e cable, 4Kx2K@60Hz output up to 90m, while 1080P@60Hz up to 100m.
- HDMI 1.4 with 4K@60Hz (chroma sub-sampling 4:2:0 8-bit only) and HDBT 2.0 compliance.
- One-way POH, TX (PSE) with PSU to power both TX and RX (PD).
- USB 2.0 pass-through, one USB Host built in TX and four USB Devices built in RX.

## Key Benefits

- High-speed USB 2.0 pass-through up to 127.2Mbps over HDBaseT up to 100m.
- Bi-directional Analog Stereo, and RS232 pass-through over HDBaseT.
- Independent DIP switch for EDID management.

## Specifications

### Transmitter

Video	
Input	1 x HDMI
Input Signal Type	HDMI 1.4 with 4K
Input Resolutions Support	4096x2160@24/25/30/50/60Hz, 3840x2160@24/25/30/50/60Hz, 1080P, 1080I, 720P, 576p, 576i, 480p
Input Video Level	0.5-1.0 V p-p
Input DDC Signal	5V p-p
Maximum Pixel Clock	297MHz
Output	1 x HDBT
Output Signal Type	HDBT 2.0
Output Resolution Support	4096x2160@24/25/30/50/60Hz, 3840x2160@24/25/30/50/60Hz, 1080P, 1080I, 720P, 576p, 576i, 480p
Video Impedance	100 Ω
Transmission distance	Cat 5e: 3840x2160: max. 90m; 1080P: max. 100m Cat 6/6a/7: 3840x2160: max. 100m; 1080P: max. 100m

Audio	
Audio input	3.5mm Mini jack, stereo
Audio output	3.5mm Mini jack, stereo
Control	
Control method	1x RS232, 1x USB-Host;

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)
Surge Protection	Voltage: ±1 kV (Ten times respectively for the positive and negative voltage)
Electrical Fast Transient/Burst	Data communication cord: 1 kV Power cord : 2 kV
Power Supply	DC 12V 2A
Power Consumption (Maximum)	≤12 W (pair)
Device Dimension (W x H x D)	210mm x 25mm x 90.2mm / 8.27" x 0.98" x 3.55"
Product Weight	0.44kg
Certification	CE, FCC

## Receiver

Video	
Input	1 x HDBT
Input Signal Type	HDBT 2.0
Input Resolution Support	4096x2160@24/25/30/50/60Hz, 3840x2160@24/25/30/50/60Hz, 1080P, 1080I, 720P, 576p, 576i, 480p
Input Video Level	0.5-1.0 V p-p
Input DDC Signal	5V p-p

Maximum Pixel Clock	297MHz
Output	1 x HDMI
Output Signal Type	HDMI 1.4 with 4K
Output Resolution Support	4096x2160@24/25/30/50/60Hz, 3840x2160@24/25/30/50/60Hz, 1080P, 1080I, 720P, 576p, 576i, 480p
Video Impedance	100 Ω
<b>Audio</b>	
Audio input	3.5mm Mini jack, stereo
Audio output	3.5mm Mini jack, stereo
<b>Control</b>	
Control method	1x RS232, 4x USB Device
<b>General</b>	
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)
Surge Protection	Voltage: ±1 kV (Ten times respectively for the positive and negative voltage)
Electrical Fast Transient/Burst	Data communication cord: 1 kV Power cord : 2 kV
Power Supply	DC 12V 2A

Power Consumption (Maximum)	≤12 W (pair)
Device Dimension (W x H x D)	210mm x 25mm x 90.2mm / 8.27" x 0.98" x 3.55"
Product Weight	0.46kg
Certification	CE, FCC

## Specifications

Cable Type	Range	Supported Video
Cat 5e	100m	Up to 1080p@60Hz, 36bit  (data rates lower than 5.3 Gbps or  below 225 MHz TMDS clock)
	90m	1080p@60Hz, 48bit
Cat 6/6a/7	100m	1080p@60Hz 3D
		4K2K/30Hz/4:4:4 and
		4K2K/60Hz/4:2:0 video formats


**Note: We recommend the use of straight-through Category cables wired to T568B standard.**



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