

AVG-4KKVMS42-402

HDMI2.0 KVM Matrix Switcher



This AVönic product is a 4x2 HDMI 2.0 KVM matrix switcher that supports full 4K and USB 3.0/2.0 matrix switching between four HDMI inputs and two groups of HDBT and HDMI outputs. It can transmit 4K@60Hz signals up to 100m/330ft via a single Cat 6A/7 cable. It also features not only basic functions like cross-point switching and control (IR, RS232, LAN), but also advanced functions like auto-downscaling for each HDMI output when it is connected to 1080P display. With four USB host ports, two groups USB devices and remote USB devices, the device also supports multiple USB connections for easy management.

Features

- 4x2 KVM matrix switcher with HDMI 2.0 switching and USB 3.0 matrix switching.
- 4x2+2 video matrix, supporting 4 HDMI 2.0 inputs and 2 HDBT 3.0 + HDMI 2.0 (mirror) outputs.
- 4x2 USB 3.0 matrix, supporting 4 USB Host devices, which can be switched to any 2 USB channels.
- Every channel includes 2 USB 3.0 device ports and multiple USB 2.0 device ports extended through HDBT.
- HDMI matrix and USB matrix can be switched simultaneously (default) or independently.
- HDCP 2.2 and backwards-compliant.
- Transmits 4K@60Hz signals up to 100m/330ft via a single Cat 6a/7 cable.
- Simple 4K-to-1080P downscaler built-in every HDBT and HDMI output.
- One-way IR control from the matrix to the connected HDBT receiver at two output zones.
- One-way PoE function enables the matrix to supply power for the connected HDBT receiver.
- One audio output port for outputting de-embedded audio from HDBT/HDMI OUT 1/2.
- Multiple control options, including front panel buttons, IR, RS232 and LAN (Telnet/Web UI).

Specifications

Technical	
Input/Output Port	4 x HDMI IN, 2 x HDMI OUT, 2 x HDBT OUT, 4 x USB HOST, 4 x USB DEVICE, 1 x AUDIO OUT, 1 x RS232, 1 x LAN, 2 x IR IN, 1 x AC 100-240V 50Hz/60Hz POWER IN
Input Video Signal	HDMI with 4K@60 YUV 4:4:4, HDCP 2.2
Output Video Signal	HDBT, HDMI
Input/Output Resolutions	4096 x 2160 2,5,6,7,8(YUV 4:4:4), 3840 x 2160 2,5,8(YUV 4:4:4), 2560x1600 8, 2560x1440 8, 1920x1200 8, 1920x1080 P8, 1680x1050 8, 1600x1200 8, 1600x900 8, 1440x900 8, 1366x768 8, 1360x768 8, 1280x1024 8, 1280x960 8, 1280x800 8, 1280x768 8, 1280x720 8, 1024x768 8, 800x600 8 1 = at 23.98 Hz, 2 = at 24 Hz, 3 = at 25 Hz, 4 = at 29.97 Hz, 5
Audio Format	<ul style="list-style-type: none"> • HDMI In/Out: Fully supports audio formats in HDMI 2.0 specification, including PCM 2.0/5.1/7.1, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio and DTS:X • HDBT: Same as HDMI In/Out • AUDIO OUT: Stereo

Maximum Pixel Clock	600MHz
Maximum Data Rate	18Gbps
USB	4 x USB 3.0 host port (type-B, up to 5Gbps) 4 x USB 3.0 device ports (type-A, up to 5Gbps, each port can supply a max current of 1A) 2 x HDBT USB extensions (USB 2.0, up to 300Mbps)

Technical

Control Method	RS232, Front Panel Buttons, LAN (Web UI/Telnet)
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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	AC 100-240V 50/60Hz
Power Consumption (Max)	85.16W (Full load) 61.56W (without USB) 29.84W (without PoE)
Device Dimension (W x H x D)	440mm x 43.5mm x 225mm/17.32" x 1.71" x 8.86"
Product Net Weight	0.95kg/2.09lbs

Transmission Distance


Cable Type	Range	Supported Video
Cat 5e/6	70m/230ft	1080P@60Hz 4K@30Hz 4K@60Hz 4:2:0 36bpp
	40m/131ft	4K@60Hz 4:4:4 24bpp 4K@60Hz 4:2:2 36bpp

Cat 6A (U/FTP)	100m/330ft	1080P@60Hz 4K@30Hz 4K@60Hz
Cat 7	100m/330ft	1080P@60Hz 4K@30Hz 4K@60Hz
Cat 5e/6	70m/230ft (with Patches)	1080P@60Hz 4K@30Hz 4K@60Hz 4:2:0 36bpp
	30m/100ft (with Patches)	4K@60Hz 4:4:4 24bpp 4K@60Hz 4:2:2 36bpp
Cat 6A (U/FTP)	70m/230ft (with Patches)	4K@60Hz 4:4:4 24bpp 4K@60Hz 4:2:2 36bpp
	100m/330ft (with Patches)	1080P@60Hz 4K@30Hz 4K@60Hz 4:2:0 36bpp
Cat 7	100m/330ft (with Patches)	1080P@60Hz 4K@30Hz 4K@60Hz 4:2:0 36bpp



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