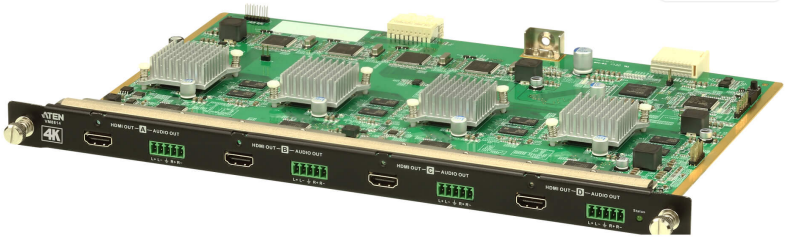
Simply Better Connections

VM8814

4-Port 4K HDMI Output Board with Scaler



The VM8814 is a 4K HDMI output board that works with an ATEN Modular Matrix Switch to offer an easy way to route 4 HDMI sources to 4 displays. In addition to the HDMI interface that carries digital A/V signals, the VM8814 is equipped with 4 stereo audio output ports that allow HDMI audio extraction.

Considering the need for fast video switching and resolution adaptation in video wall applications, the VM8814 supports Seamless Switch™ and EDID Expert™ that make real-time video switching possible, and contains a built-in 4K scaler that handles different video resolutions. The ATEN VM input/output boards support hot-swappable installation that gives system integrators great flexibility and efficiency for maintenance. The ATEN VM input/output boards along with ATEN Modular Matrix Switches offer ideal solutions that perfectly meet your demands for video-critical applications.

Features

- 4-port HDMI Output Board that is compatible with the VM1600/ VM3200 and can be mixed with modular I/O boards of any type for optimum flexibility
- Superior video quality – HDTV resolutions of 480p, 720p, 1080i and 1080p (1920 x 1080); 4K2K@60 (4:2:0)
- Audio-enabled, HDMI audio can be extracted
- 4K Scaler –features a video scaling function to convert input resolutions to the optimum display resolutions
- Seamless Switch™ –features close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions*
- Video Wall –allows you to create custom video wall layouts via an intuitive web GUI*
- EDID Expert –selects optimum EDID settings for smooth power-up and the highest quality display
- HDMI (3D, Deep Color); HDCP 2.2 Compatible
- Cable Quality Tester – examines the HDMI cable quality
- FrameSync –prevents image tearing by synchronizing the scaler output frame rate to the input signal frame rate
- Consumer Electronics Control (CEC) support

*Note:
1. When Seamless Switch™ is enabled, 3D, Deep Color, or interlace (i.e., 1080i) formats will not be supported. To use these formats, make sure to disable Seamless Switch™.
2. Videos may not display within range when Seamless Switch™ or Video Wall is enabled, in which case please adjust the display settings on your device.

Specifications

Video Output	
Interfaces	4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	Up to 15m
Video	
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP 2.2 Compatible Consumer Electronics Control (CEC)
Max. Resolution	4096x2160/3840x2160@60Hz (4:2:0); 4096x2160/3840x2160@30Hz (4:4:4)
Audio	
Output	4 x Captive Screw Connector, 5 pole * Audio signal type: stereo, balanced/unbalanced.
Power Consumption	20W:94BTU
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.65 kg (1.43 lb)
Dimensions (L x W x H)	35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.)
Carton Lot	2 pcs
Note	For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.

Diagram

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