

4-Port 4K HDMI Input Board / 4-Port 4K HDMI Output Board with Scaler VM7814 / VM8814

- The VM7814/VM8814 is a 4K HDMI input/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 VM7814/VM8814 is equipped with 4 stereo audio input/output ports that allow stereo audio embedding and 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.

VM7814 HDMI Input Board



VM8814 HDMI Output Board with Scaler



Features

- Compatible with the VM1600 / VM3200; mix and match 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); VGA, SVGA, SXGA, UXGA, WUXGA (1920x1200), and 4K2K @ 60Hz (4:2:0)
- Audio-enabled, HDMI audio can be extracted and stereo audio can be embedded
- 4K Scaler** – features a video scaling function to convert input resolutions to the optimum display resolutions (VM8814)
- Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions (VM8814)*
- Video Wall** – allows you to create custom video wall layouts via an intuitive web GUI (VM8814)*
- 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 (VM8814)
- Consumer Electronics Control (CEC) support

*Note:

- 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™.
- To use the Seamless Switch or the Video Wall function, disable the scaler on your display.



Specifications

Function	VM7814 / VM8814
Video Input	
Interfaces	VM7814: 4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	Up to 5 m
Video Output	
Interfaces	VM8814: 4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	Up to 15 m
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	4096 x 2160/3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160/3840 x 2160 @ 30Hz (4:4:4)
Audio	
Input	4 x Captive Screw Connector, 5 pole
Output	*Audio signal type: stereo, balanced/unbalanced.
Power	
Consumption	VM7814: 4.45W; VM8814: 20.00W
Environmental	
Operating Temperature	0° to 40° C
Storage Temperature	-20° to 60° C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	VM7814: 0.56 kg; VM8814: 0.65 kg
Dimensions (L x W x H)	35.20 x 23.80 x 2.33 cm

Product information is subject to change without prior notice.

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