

4-Port True 4K HDMI Input Board

4-Port True 4K HDMI Output Board with Scaler

VM7824/VM8824

- The VM7824/VM8824 is a True 4K HDMI input/output board that works with an ATEN Modular Matrix Switch to offer an easy way to route 4 HDMI audio/video sources to 4 displays with True 4K high-definition images. In addition to the HDMI interface that carries digital A/V signal, the VM7824/VM8824 also provides 4 stereo audio input/output ports that enable stereo audio embedding or HDMI audio extraction.

Considering video wall applications always require fast video switching and resolution adaptation, the VM8824 supports Seamless Switch™ technology that provides real-time video switching, a built in 4K scaler that handles different video resolutions, and the EDID Expert technology for fast smooth switching between displays. All of ATEN's VM series input/output boards support hot-swappable installation that gives system integrators great flexibility and efficiency for maintenance. The VM series input/output boards along with ATEN Modular Matrix Switches offer ideal solutions that perfectly meet your demands for multi-interface video applications.



VM7824 True 4K HDMI Input Board



VM8824 True 4K HDMI Output Board with Scaler

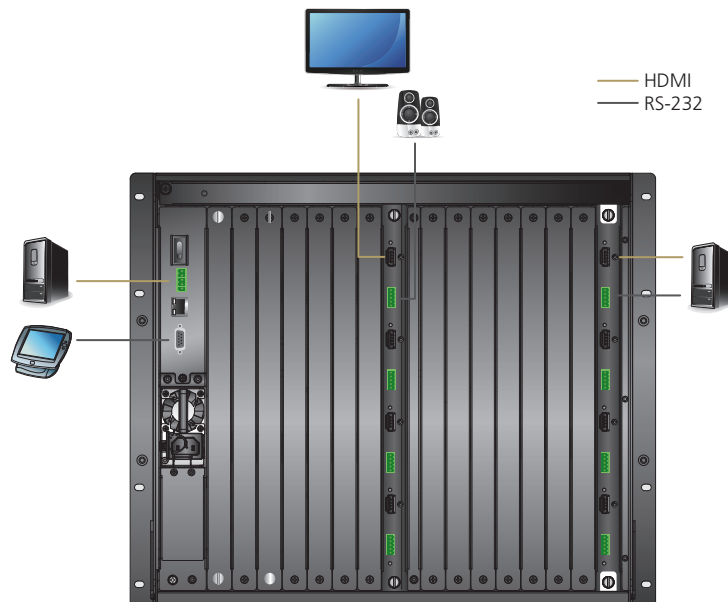


Features

- Compatible with the VM Modular Matrix Switches; mix and match with modular I/O boards of any type for optimum flexibility
- True 4K Resolutions – handles uncompressed video resolutions up to 3840 x 2160 / 4096 x 2160 @ 60Hz (4:4:4)*
- 4K Scaler – features a video scaling function to integrate a video wall seamlessly with various output video resolutions (VM8824)
- Seamless Switch™ – features close-to-zero second switching that provides continuous video streams, real-time switching and stable signal transmissions (VM8824)*
- Video Wall – allows you to create custom video wall layouts via intuitive web GUI (VM8824)*
- True 4K EDID Expert – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolution across different screens
- FrameSync – prevents image tearing by synchronizing the scaler output frame rate to the input signal frame rate (VM8824)
- Audio-enabled, HDMI audio can be extracted and stereo audio can be embedded
- Cable Quality Tester – examines the HDMI cable quality
- HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible
- Consumer Electronics Control (CEC) support

***Note:**

1. True 4K resolutions are only supported when the VM7824 and VM8824 are used with the VM3250.
2. 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™.
3. 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

Function	VM7824 / VM8824
Video Input	
Interfaces	VM7824: 4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	Up to 3m
Video Output	
Interfaces	VM8824: 4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	Up to 3m
Video	
Max. Data Rate	18.0 Gbps (6.0 Gbps Per Lane)
Max. Pixel Clock	600 MHz
Compliance	HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible; Consumer Electronics Control (CEC)
Max. Resolution	4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
Audio	
Input	4 x Captive Screw Connector, 5 Pole (Green) *Audio signal type: stereo, balanced/unbalanced.
Output	
Power Consumption	VM7824: 8.95W; VM8824: 38.97W
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	VM7824: 0.55 kg; VM8824: 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.

ATEN International Co., Ltd.

3F., No.125, Sec. 2, Datong Rd., Sijhih District., New Taipei City 221, Taiwan
 Phone: 886-2-8692-6789 Fax: 886-2-8692-6767
 www.aten.com E-mail: marketing@aten.com

Publish Date: 05/2020 V2.0



© Copyright 2020 ATEN® International Co., Ltd.
 ATEN and the ATEN logo are trademarks of ATEN International Co., Ltd.
 All rights reserved. All other trademarks are the property of their respective owners.