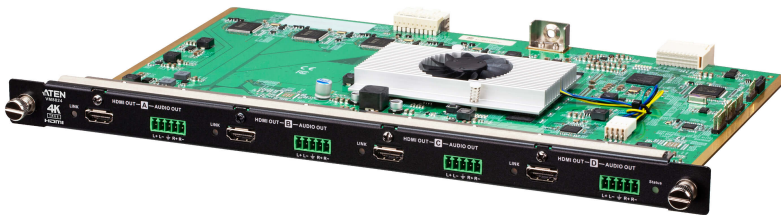


## VM8824

4-Port True 4K HDMI Output Board with Scaler



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



### 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
- 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 intuitive web GUI\*
- 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
- 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**

|                        |   |
|------------------------|---|
| Video Output           |   |
| Interfaces             | 4 x HDMI Type A Female (Black)  |
| Impedance              | 100 Ω   |
| Max. Distance          | Up to 5.0m  |
| Video                  |   |
| Max. Data Rate         | 18.0 Gbps (6.0 Gbps Per Lane)   |
| Max. Pixel Clock       | 600 MHz   |
| Compliance             | HDMI (3D, Deep Color, 4K)<br>HDCP 2.2 Compatible<br>Consumer Electronics Control (CEC)  |
| Max. Resolution        | 4096x2160/3840x2160@60Hz (4:4:4)  |
| Audio                  |   |
| Output                 | 4 x Captive Screw Connector, 5 pole<br>* Audio signal type: stereo, balanced/unbalanced.  |
| Power Consumption      | 44.83W:210BTU/h<br><br>Note:<br><ul style="list-style-type: none"> <li>● The measurement in Watts indicates the typical power consumption of the device with no external loading.</li> <li>● The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.</li> </ul> |
| 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<br>(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



**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



© Copyright 2015 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.