

VM7824

4-Port True 4K HDMI Input Board



The VM7824 is a True 4K HDMI input 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 support. In addition to the HDMI interface that carries digital A/V signal, the VM7824 also provides 4 stereo audio input ports that enable stereo audio embedding.

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)*
- True 4K EDID Expert – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolution across different screens
- 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: True 4K resolutions are only supported when the VM7824 and [VM8824](#) are used with the [VM3250](#).

Specifications

Video Input	
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) HDCP 2.2 Compatible Consumer Electronics Control (CEC)
Max. Resolution	4096x2160/3840x2160@60Hz (4:4:4)
Audio	
Input	4 x Captive Screw Connector, 5 Pole (Green) *Audio signal type: stereo, balanced/unbalanced.
Power Consumption	11.33W:53BTU/h Note: ● The measurement in Watts indicates the typical power consumption of the device with no external loading. ● The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.55 kg (1.21 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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