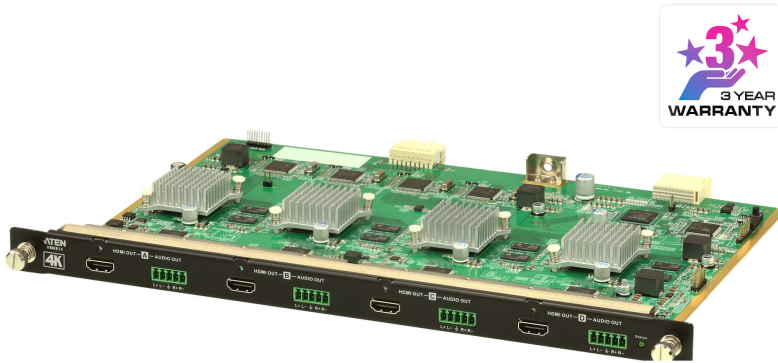


VM8814

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/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 | 0.65 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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