

8x94K HDMI Matrix Switch with Scaler



• 4K is the next generation of image quality for high definition video, which delivers eight million pixels that is four times as much detail as 1080p Full HD resolutions. ATEN'S VM6809H 4K HDMI Matrix Switch with Scaler is compatible with the two latest 4K video resolution standards: 3840 x 2160 and 4096 x 2160. The VM6809H offers powerful HD processing to produce 4K resolutions across nine displays with crystal-clear images.

The VM6809H supports 4K @ 60 Hz, HDMI 2.0* and HDCP 2.2 and features seamless switching that employs an FPGA matrix architecture that ensures continuous video streams, real-time control, and stable signal transmissions. With a built-in high-performance scaler, the VM6809H easily converts various input resolutions into various output display resolutions, giving viewers the best video and picture quality across all displays. The switch integrates video wall functionality with an easy-to-use web GUI that lets you create 17 connection profiles that can be customized into different video wall layouts.

The VM6809H is an ideal solution for applications that require multiple HDMI displays with multiple HDMI sources to be conveniently setup – such as for stage presentations, digital classroom, video conference rooms and any installation that requires real-time synchronization.

*Note:

HDMI 2.0 supports 3840 x 2160 @ 30 Hz (4:4:4), 3840 x 2160 @ 60 Hz (4:2:0), 4096 x 2160 @ 30 Hz (4:4:4), 4096 x 2160 @ 60 Hz (4:2:0) resolutions.





Features

- 8 x 9 HDMI input/output connections
- Multiple means for system configuration including front-panel pushbuttons, RS-232 control, and Ethernet connections for web GUI or Telnet
- 4K Scaler features a 4K video scaling function to convert input resolutions to the display's native resolutions
- Seamless Switch™ features close-to-zero second switching for continuous video streams, real-time switching, and stable signal transmissions*
- Video Wall allows you to create custom video wall layouts via intuitive web GUI
- EDID Expert selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolutions across different screens*
- HDMI (3D, Deep color, 4K); HDCP 2.2 compatible
- Audio-enabled, HDMI audio can be extracted to stereo audio
- ESD protection for HDMI
- Rack-mountable (1U design)

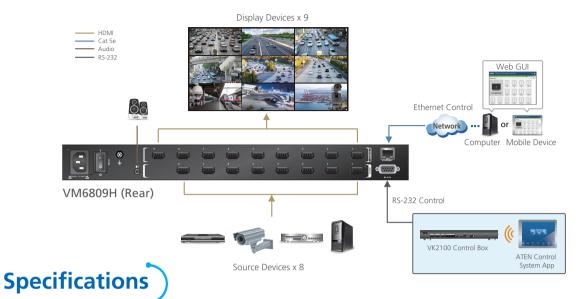
*Note:

- 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.

Highlights

Video Wall	The VM6809H is built-in with video wall functionality that allows you to customize display layouts using the intuitive web GUI which has won the Red Dot Interface Design award. Through the profile setup that comes with up to 17 connection profiles, multiple displays can be easily configured to show video as a single large screen in various layouts – to see "what you want, how you want it".
4K Scaler	The VM6809H is equipped with a high-performance 4K scaling engine that converts various input resolutions into the display's native resolution, giving viewers the best picture and video quality. Inputs with low resolutions are scaled perfectly to the best fit, so that video playback is smooth and pleasant. In addition, the premium scaling engine offers a range of aspect settings that automatically adjusts the picture ratio for maximum viewing comfort.
Smooth and Seamless Viewing Experience	The VM6809H's built-in FPGA design unifies video formats and provides continuous video streams, real-time switching, and stable signal transmissions. It is capable of high-speed switching between all input and output ports – supporting TMDS high data transfer rates of up to 4K @ 60 Hz to minimize latency.





Function VM6809H Video Input 8 x HDMI Type A Female (Black) Interface 100 Ώ Impedance Max. Distance 1.8 m Video Output Interface 9 x HDMI Type A Female (Black) Impedance 100 Ώ Max. Distance 15 m Video Max. Data Rate 10.2 Gbps (3.40 Gbps per lane) Max. Pixel Clock 340 MHz HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible; Consumer Electronics Control (CEC) Compliance Up to 4096 x 2160 / 3840 x 2160 @ 60 Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30 Hz (4:4:4) Max. Resolution Max. Distance Up to 15 m Audio Output 1 x Mini Stereo Jack Female (Green) Control Connector: 1 x DB-9 Female (Black); Baud Rate: 19200, RS-232 Data Bits: 8, Stop Bits: 1, Parity: No, Flow Control: No Ethernet 1 x RJ-45 Female **EDID Settings** EDID Mode: Default / Port 1 / Remix / Customized (EDID Wizard Support) Power Connectors 1 x 3-prong AC Socket Maximum Input Power Rating 100 - 240 VAC; 50 - 60 Hz; 1.0 A AC 110V: 79.5W; AC 220V: 78.1W Consumption Environmental **Operating Temperature** 0° to 50° C Storage Temperature -20° to 60° C 0 - 80% RH, Non-Condensing Humidity **Physical Properties** Housing Metal 7.05 kg Weight 43.24 x 45.03 x 4.40 cm Dimensions $(L \times W \times H)$

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: 12/2017 V1.0

© Copyright 2017 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.