

VM3909H

9 x 9 4K HDMI HDBaseT-Lite Matrix Switch



With the rapid development of HDBaseT technology, ATEN has released the new VM3909H HDMI HDBaseT-Lite Matrix Switch. The switch extends uncompressed 4K / Full HD digital video, audio, IR and power via HDBaseT technology through a single Cat 6a cable up to 40/70 meters.

When the VM3909H is combined with <u>VE805R/VE816R</u> receivers, it supports both ATEN Seamless Switch[™] technology and Video Wall functionality. ATEN's exclusive Seamless Switch[™] technology employs an FPGA graphics processor to ensure continuous video streaming, real-time control and stable signal transmission across all sources. The Video Wall functionality allows you to create 18 video wall profiles for custom screen layouts through an easy-to-use web interface. The Power over HDBaseT (POH) feature provides an ingenious way to power the <u>VE802R</u> receivers through the Cat 5e cable without the need of using an additional power supply.

The VM3909H offers flexibility with reliable signal distribution controlled via front-panel pushbuttons, IR, RS-232 and Ethernet (Telnet / Web GUI) connections. It's designed as a functional and integrated control system built for residential, commercial and conference center settings

Model				Seamless Switch™	Video Wall	РОН	Dual View	
VE801R	70m*	N/A	•	N/A	N/A	N/A	N/A	N/A
VE802R	70m*	•	•	N/A	N/A	•	N/A	N/A
VE805R (with Scaler)	70m*	•	N/A	•	•	N/A	N/A	N/A
VE816R (with Scaler)	70m*	•	•	•	•	N/A	N/A	•
VE814AR	70m*	•	•	N/A	N/A	N/A	•	N/A
VE601R (DVI)	70m*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VE901R	70m*	N/A	•	N/A	N/A	N/A	N/A.	N/A

*A Cat 6a cable is required to extend the distance up to 70 meters.





Features

- Supports 9 HDMI inputs and mirrored 9 HDMI and HDBaseT outputs .
- The mirrored HDMI outputs can be used to verify the corresponding HDBaseT output or as an additional video display* •
- HDBaseT Connectivity connects HDMI displays over a long distance via one Cat 5e/6/6a cable
 HDBaseT Anti-jamming resists signal interference during high-quality video transmission
- Power over HDBaseT (POH) supplies power over a long distance from the switch to a receiver over a single Cat 5e/6/6a cable ** / ***
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- Seamless Switch™ Technology – ATEN FPGA engine unifies video formats to provide continuous v Video Wall - allows you to create custom video wall layouts via intuitive web GUI** ams, real-time switching and stable signal transmissions**
- •
- EDID ExpertTM selects optimum EDID settings for smooth power-up, high-quality display and use of the best video resolution across different screens
- COND EXPERT[™] Selects optimum EDD settings for smooth power-up, nigh-quality display and use of the best video resolution across d
 Multiple Control Methods system management via front-panel pushbuttons, IR, RS-232 and Ethernet (Telnet / Web GUI) connections
 View and control via <u>ATEN Video Matrix Control App</u> in a swift and agile way
 Bi-directional IR channel ports support full frequency IR signals from 30 KHz to 60 KHz
 Supports ATEN's LockPro[™] HDMI cable lock for securing HDMI cables to the device
 Firmware Upgradeable
 Rack Mountable (VM3909H: 2U Design)

Note:

* The HDMI outputs can't support the Video Wall and Seamless Switch™ functions. ** The Seamless Switch™, Video Wall and POH features are only available when used a compatible receiver. *** The VM3909H can provide up to 15.4 W @ 48 VDC of power per port and 75W of total power ; please ensure that the power consumption of the devices connected to the VM3909H does not exceed this limit.

Specifications

Video Input				
Impedance	100 Ω			
Interfaces	9 x HDMI Type A Female (Black)			
Max. Distance	3.0 m			
Video Output				
Interfaces	9 x HDMI Type A Female (Black) ; 9 x RJ-45 Female			
Impedance	100 Ω			
Max. Distance	HDMI: up to 15 m HDBaseT (Class B): 4K up to 35 m (Cat 5e/6) / 40 m (Cat 6a); 1080p up to 60 m (Cat 5e/6) / 70 m (Cat 6a)			
Video				
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)			
Max. Pixel Clock	340 MHz			
Compliance	HDMI (3D, Deep Color, 4K); HDCP 1.4 Compatible Consumer Electronic Control (CEC) HDBaseT Compatible			
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)			
Max. Distance	Up to 70 m			
Control	·			
RS-232	Connector: 1 x DB-9 Female (Black) Baud rate and protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No			
IR Channel	9 x Mini Stereo Jack Female (Black); 30~60 KHz full range transmission			
Ethernet	1 x RJ-45 Female			
EDID Settings	EDID Mode: Default / Port1 / Remix / Customized			
Connectors	·			
Power	1 x 3-Prong AC Socket			
Power	·			
Maximum Input Power Rating	100-240 VAC; 50-60 Hz; 1.0A			

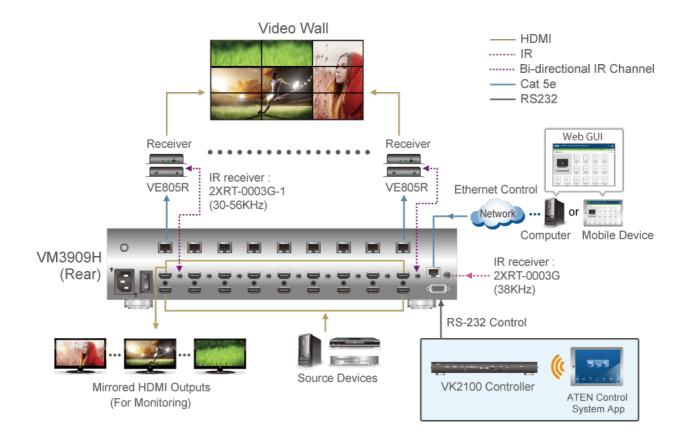


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Power Consumption	AC110V:122W:572BTU/h AC220V:120W:563BTU/h
	Note: • The measurement in Watts indicates the typical power consumption of the device with no external loading. • The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.
Environmental	
Operating Temperature	0-50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	7.33 kg(16.15 lb)
Dimensions (L x W x H)	43.24 x 38.23 x 8.80 cm (17.02 x 15.05 x 3.46 in.)
Rack Height (U Spaces)	20
Carton Lot	1 pc
Note	For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.



Diagram

Video Wall Setup



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



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