## VM3404H

4 x 4 4K HDMI HDBaseT-Lite Matrix Switch



With the rapid development of HDBaseT technology, ATEN has released the new VM3404H 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 VM3404H is combined with VE805R/VE816R receivers, it supports both ATEN Seamless Switch<sup>TM</sup> technology and Video Wall functionality. ATEN's exclusive Seamless Switch<sup>TM</sup> 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 8 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 VM3404H 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 4 HDMI inputs and mirrored 4 HDMI and HDBaseT outputs
- The mirrored HDM 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\*\* / \*\*\*
- Seamless Switch<sup>TM</sup> Technology ATEN FPGA engine unifies video formats to provide continuous video streams, real-time switching and stable signal t Video Wall allows you to create custom video wall layouts via intuitive web GUI\*\* EDID Expert<sup>TM</sup> selects optimum EDID settings for smooth power-up, high-quality display and use of the best video resolution across different screens s, real-time switching and stable signal transmissions\*\*

- Multiple Control Methods system management via front-panel pushbuttons, IR, RS-232 and Ethernet (Telnet / Web GUI) connections
- View and control via ATEN Video Matrix Control App 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 (VM3404H: 1U Design)

- \* 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 VM3404H can provide up to 15.4 W @ 48 VDC of power per port and 35W of total power ; please ensure that the power consumption of the devices connected to the VM3404H does not exceed this limit.

## Specification

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Interfaces	4 x HDMI Type A Female (Black)			
Impedance	100 Ω			
Max. Distance	3.0 m			
Video Output				
Interfaces	4 x HDMI Type A Female (Black); 4 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)			
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	4 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			
Carton Lot	1 pc			
Environmental				
Operating Temperature	0-50°C			
Storage Temperature	-20 - 60°C			
Humidity	0 - 80% RH, Non-Condensing			
Power Consumption	AC110V:62W:291BTU AC220V:60.6W:284BTU			
Power				
Maximum Input Power Rating	100-240 VAC; 50-60 Hz; 1.0A			
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			
Physical Properties				
Housing	Metal			
Weight	5.62 kg ( 12.38 lb )			
Dimensions (L x W x H)	43.24 x 38.23 x 4.40 cm (17.02 x 15.05 x 1.73 in.)			
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

