VM0404HB

4 x 4 True 4K HDMI Matrix Switch

ATEN's VM0404HB is a True 4K HDMI Matrix Switch series that offers an easy and affordable way to route any of 4 HDMI video sources to any of 4 HDMI displays. Featured with the superior video resolutions up to 4096 x 2160 @ 60Hz (4:4:4), the VM0404HB delivers robust signal routing and ultra-fast digital video switching, making it perfect for applications where routing of True 4K digital signals is required, such as event venues, digital classrooms, auditoriums, department stores, and more.

The intuitive GUI design of the VM0404HB allows users to flexibly configure any input to output connections, eliminating the need   of frequent physical configuration changes. In addition to the built-in web GUI, the VM0404HB can be operated through front-panel pushbuttons, IR remote, RS-232 control, and Telnet via Ethernet connections, giving users the ultimate convenience while keeping the system available with performance video switching anytime.

Features

- Connects any of 4 HDMI sources to any of 4 HDMI displays
- Supports True 4K resolutions up to 4096 x 2160 @ 60Hz (4:4:4)
- Supports HDR10$^+$
- Multiple Control Methods – system management via front-panel pushbuttons, IR remote, RS-232 control, and Web GUI/Telnet via Ethernet connections
- View and control via ATEN Video Matrix Control App in a swift and agile way
- EDID Expert™ – selects optimum EDID settings for smooth power-up, high-quality display and use of the best video resolution across different screens
- Signaling rates up to 6 Gbits for flawless true 4K output
- Supports Dolby True HD and DTS HD Master audio
- HDMI (3D, Deep Color, 4K) and HDCP 2.2 compatible
- Supports Consumer Electronics Control (CEC)
- Power-on Detection – switches to the next powered-on source when one source is powered off
- ESD protection for HDMI
- Supports ATEN's LockPro™ HDMI cable lock for secure HDMI cable connections
- Firmware upgradeable
- Rack mountable (1U design)

Specifications

Video Input

Interfaces	4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	5.0 m / 4K@60Hz (4:4:4)
Video Output	
Interfaces	4 x HDMI Type A Female (Black)
Max. Distance	5m / 4K@60Hz (4:4:4) 15m / 1920 x 1200
Impedance	100 Ω
Video	
Max. Pixel Clock	600 MHz
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
Max. Data Rate	18 Gbps(6 Gbps Per Lane)
Compliance	HDMI (3D, 4K, Deep Color) HDCP 2.2 Compatible Consumer Electronics Control (CEC)
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	1 x Mini Stereo Jack Female (Black)
Ethernet	1 x RJ-45 Female
EDID Settings	EDID Mode: Default / Port 1 / Remix / Customized (EDID Wizard Support)
Environmental	
Operating Temperature	0-40°C
Humidity	0 - 80% RH, Non-Condensing
Storage Temperature	-20 - 60°C
Physical Properties	
Weight	2.47 kg (5.44 lb)
Housing	Metal
Dimensions (L x W x H)	43.72 x 15.28 x 4.40 cm (17.21 x 6.02 x 1.73 in.)
Connectors	
Power	1 x 3-Prong AC Socket
Carton Lot	1 pc

Power Consumption	AC110: 17.8W:83BTU/h AC220:17.6W:83BTU/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.
Power	
Maximum Input Power Rating	100-240 VAC; 50-60 Hz; 1.0A
Note	For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.

Diagram