

VM3200

32x32 Modular Matrix Switch



reddot award 2015
winner interface design



The VM3200 [Modular Matrix Switch](#) offers advanced access and real-time control of multiple local and remote A/V input devices and displays from a single chassis. The VM3200 allows users to independently switch and route video and/or audio content directly to various monitors, displays, projectors, and/or speakers simply by pressing front panel pushbuttons. A built-in Scaler encodes the video format in order to provide seamless, real-time switching. The front panel LCD shows a quick view of active port connections. The switch also includes an option to select an [EDID](#) Mode that yields the best resolution across different monitors.

The VM3200 is easily expandable and accommodates a lineup of hot-swappable ATEN I/O boards. Equipped with automatic signal conversion, it allows various combinations of digital video interfaces, including HDBaseT, DisplayPort, HDMI, DVI, 3G-SDI, and VGA. This makes it ideal for large-scale A/V applications such as broadcasting stations, traffic and transportation-related control rooms, emergency service centers, and any application that requires customizable, high-speed A/V signal routing.

Features

- Connects any of 32 video sources to any of 32 displays in combination with ATEN Modular Matrix Solutions
- **Supports 4K resolutions** – up to UHD (3840 x 2160) and DCI (4096 x 2160) with refresh rates of 30 Hz (4:4:4) and 60 Hz (4:2:0)
- **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 intuitive web GUI
- **Live Streaming** – supports single source live streaming via web GUI for convenient evaluation of display output
- **Content and Layout Preview** – displays thumbnails of source media in web GUI, simplifying profile configuration
- **EDID Expert™** – selects optimum **EDID** settings for smooth power-up, high-quality display and use of the best resolution across different screens
- **Audio-enabled** – HDMI audio can be extracted, and stereo audio can be embedded (HDMI I/O boards)
- **Calendar-based scheduling** – allows profile playing based on the pre-set schedule and RTC
- Multiple Control Methods – system management via front-panel pushbuttons, RS-232, RS-485/422, and Ethernet (Telnet / Web GUI) connections
- View and control via ATEN **Video Matrix** Control App in a swift and agile way
- Hot-swappable design for I/O boards, fan module, and power supplies for easy maintenance and higher reliability
- Flexible system expandability via hot-swappable tool-free installation of I/O boards
- Enables power supply via HDBaseT with installation of I/O boards and power injectors (**VE44PB** recommended), eliminating the need for separately installing power infrastructures to save overall cost
- **Optional redundant power supply** – ensures reliability for mission-critical applications
- Long-Reach mode up to 1080p@150m – enables extended AV transmission using the **HDBaseT™** Input/Output board with ATEN **HDBaseT™** Class A Video Extenders
- HDCP 2.2 Compatible*
- HDMI: 3D, Deep Color, 4K*
- Consumer Electronics Control (CEC) supported*
- ESD protection for HDMI
- Rack mountable (9U design)

Note:

1. The availability of the features with “*” depends on which I/O board is inserted.

2. 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™**.

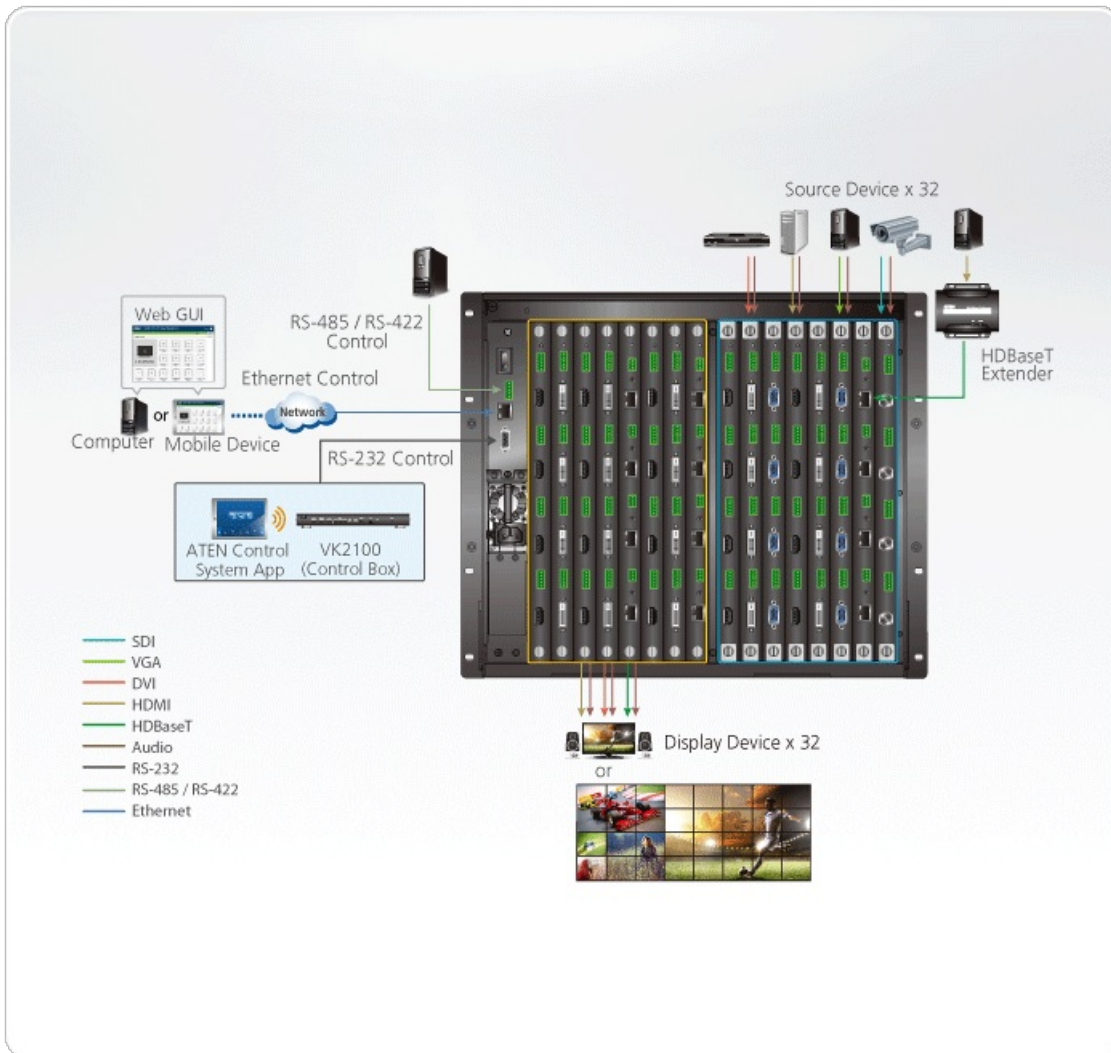
3. Videos may not display within range when **Seamless Switch™** or Video Wall is enabled, in which case please adjust the display settings on your device.

Specifications

Board Input	8 x Slot
Board Output	8 x Slot
Video Input	
Interfaces	Depends on which I/O board is inserted
Max. Data Rate	15.2 Gbps (3.8Gbps per Lane)
Audio	
Input	Depends on which Input board is inserted
Output	Depends on which Output board is inserted
Control	
RS-232	Connector: 1 x DB-9 Female (Black) Serial Control Pin Configurations: Pin2 = Tx, Pin 3=Rx, Pin 5= Gnd Baud Rate and Protocol: Baud Rate:19200, Data Bits:8, Stop Bits:1, Parity: No, Flow Control: No
RS-485/RS-422	Connector: 1 x Captive Screw Connector, 5 Pole
Ethernet	Connector: 1 x RJ-45 Female
EDID Settings	EDID Mode: Default / Port1 / Remix / Customized (EDID Wizard support)
Connectors	

Power	1 x 3-Prong AC Socket
Power	
Maximum Input Power Rating	100-240 VAC; 50-60Hz; 10A
Power Consumption	AC110V:800W:239BTU AC220V:800W:236BTU
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Dimensions (L x W x H)	48.20 x 47.19 x 39.90 cm (18.98 x 18.58 x 15.71 in.)
Weight	18.20 kg (40.09 lb)
Rack Height (U Spaces)	9U
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



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