

VM5404D / VM5808D

4 x 4 / 8 x 8 DVI Matrix Switch with Scaler

- While HDMI-compliant devices are becoming more popular, the majority of traffic control centers and other large-scale, centralized control rooms still rely on DVI display devices.

In order to avoid signal instability, quality deterioration and other factors associated with interface converters, ATEN created the VM5404D / VM5808D: A seamless matrix switch for DVI signals that offers an easy and affordable way to route any of 4/8 DVI video sources to any of 4/8 DVI displays.

The VM5404D / VM5808D includes seamless switching that employs an FPGA matrix architecture to ensure continuous video streaming, real-time control and stable signal transmission. With a built-in high-performance scaler, the VM5404D / VM5808D easily converts various input resolutions into a array of output resolutions, giving viewers the best image quality across all displays. The switch also integrates video wall functionality with an easy-to-use web GUI that lets you create 8/16 connection profiles for convenient layout customization.

The VM5404D / VM5808D is the ideal solution for any control center streaming multiple sources to multiple displays.

VM5404D Front view



VM5404D Rear view



VM5808D Front view



VM5808D Rear view

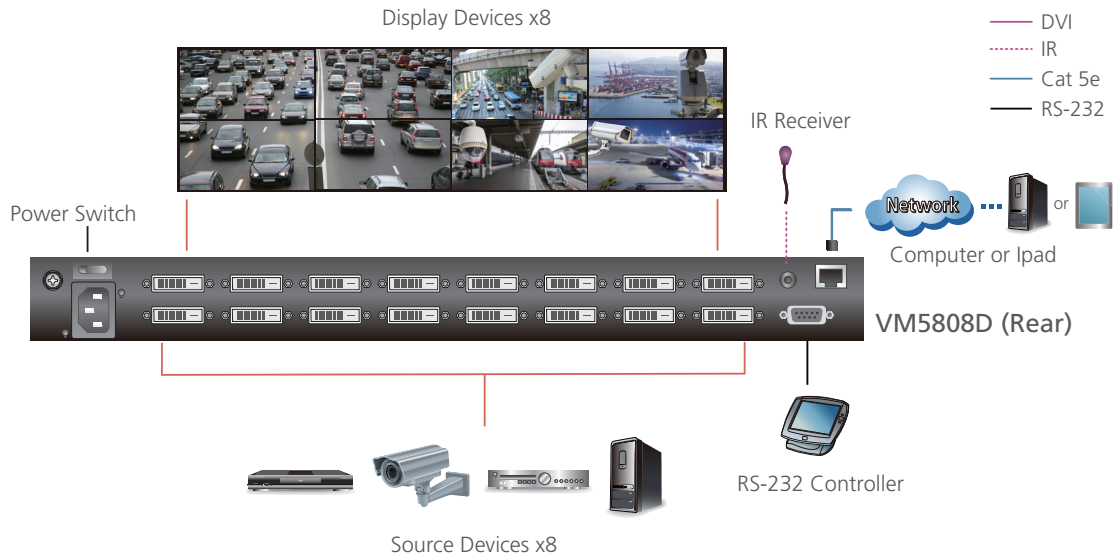


Features

- 4x4 DVI I/O connections
- Seamless Switch™ – ATEN FPGA design unifies video formats to provide 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 and highest quality display
- Multiple Control Methods – system management via front-panel pushbuttons, IR, RS-232 and Ethernet (Telnet / Web GUI) connections
- Extends IR transmission via IR extension cable
- Built-in Scaler on each output port converts input resolutions into the display’s native resolution, supports scaling 1920 x 1200 resolutions up or down
- Firmware Upgradeable
- Rack Mountable (1U Design)

Highlights

Video Wall	<p>The VM5404D/VM5808D is equipped with Video Wall functionality integrated through an easy to use web GUI. The Video Wall setup provides up to 8/16 connection profiles that you can customize into layouts using a simple point and click web interface. Video Walls allow you to setup multiple displays that are configured to form and show video as a single large screen in various layouts to “see what you want, how you want”.</p>
Smooth and Seamless Viewing Experience	<p>The VM5404D/VM5808D’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/output ports – supporting TMDS high data transfer rates of up to 1080p / 1920 x 1200 @ 60Hz to minimize latency.</p>



Specifications

Function	VM5404D	VM5808D
Video Input		
Interface	4 x DVI-D Female (White)	8 x DVI-D Female (White)
Impedance	100 Ω	100 Ω
Max. Distance	1.8 m	1.8 m
Video Output		
Interface	4 x DVI-D Female (White)	8 x DVI-D Female (White)
Impedance	100 Ω	100 Ω
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDCP 1.4 Compatible	HDCP 1.4 Compatible
Max. Resolution	Up to 1920 x 1200	Up to 1920 x 1200
Max. Distance	Up to 5m	Up to 5m
Control		
RS-232	Connector: 1 x DB-9 Female (Black) Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bit: 1, Parity: No, Flow Control: No	Connector: 1 x DB-9 Female (Black) Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bit: 1, Parity: No, Flow Control: No
Ethernet	1 x RJ-45 Female (Black)	1 x Mini Stereo Jack Female (Black)
IR	1 x Mini Stereo Jack Female (Black)	1 x RJ-45 Female (Black)
EDID Settings	EDID Mode: Default / Port 1/ Remix / Customized	EDID Mode: Default / Port 1/ Remix / Customized
Power		
Connectors	1 x 3-Prong AC Socket	1 x 3-Prong AC Socket
I/P Rating	100-240VAC; 50-60Hz; 1.0A	100-240VAC; 50-60Hz; 1.0A
Consumption	120VAC, 34.1W; 230VAC, 34.4W	120VAC, 56.4W; 230VAC, 55.9W
Environmental		
Operating Temperature	0-50°C	0-50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	3.5 kg	4.25 kg
Dimensions (L x W x H)	43.24 x 25.98 x 4.4 cm	43.24 x 25.98 x 4.4 cm

