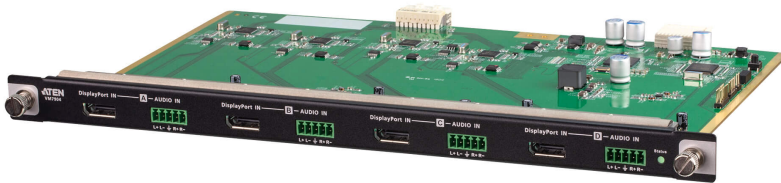# VM7904

4-Port 4K DisplayPort Input Board

The VM7904 is a 4K DisplayPort Input Board that works with an ATEN Modular Matrix Switch to offer an easy way that routes 4 DisplayPort video and audio sources to up to 16 or 32 displays. In addition to the DisplayPort interface that carries digital A/V signal, the VM7904 also provides 4 stereo audio input ports that allow stereo audio to be routed independently or embedded for digital output.

Ideal for high-resolution video wall applications, the VM7904 effectively routes DisplayPort sources with 4K resolution up to 4096x2160@30Hz (4:4:4) and EDID Expert technology for the optimum resolutions across different displays. All of ATEN's VM series input/output boards support hot-swappable installation that gives system integrators great flexibility and efficiency for maintenance. The VM series input/output boards along with ATEN Modular Matrix Switch offer flexible solutions that perfectly meet your demands for video-critical applications.

Features

- Compatible with the VM1600A / VM3200; mix and match with modular I/O boards of any type for optimum flexibility
- Connects up to 4 DisplayPort inputs to up to 16 (VM1600A) or 32 (VM3200) displays
- Superior video quality – up to 4096 x 2160 / 3840 x 2160 @ 30 Hz (4:4:4)
- Audio-enabled - DisplayPort audio can be exracted and stereo audio can be embedded
- EDID Expert –selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolutions across different screens
- Support DP1.1 with data rate up to 10.8 Gbps (2.7 Gbps per lane)
- HDCP 2.2 Compliant
- Hot-swappable design for easy integration and maintenance

Specification

Video Input	
Interfaces	4 x DisplayPort Female (Black)
Impedance	100 Ω
Max. Distance	Up to 3m
Video	
Max. Data Rate	10.8 Gbps (2.7 Gbps Per Lane)
Max. Pixel Clock	340 MHz
Compliance	HDCP Compatible
Max. Resolution	4096x2160@30Hz(4:4:4) 3840x2160@30Hz(4:4:4)
Audio	
Input	4 x Captive Screw Connector, 5 Pole (Green) *Audio signal type: stereo, balanced/unbalanced.
Power Consumption	7.18W:34BTU
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.55 kg (1.21 lb)
Dimensions (L x W x H)	35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.)
Carton Lot	2 pcs
Note	For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.

Diagram

Source Device

Serial Device

Ethernet

RS-485/RS-422

— RS-232/RS-485/RS-422
— DisplayPort
— Ethernet
— Audio