Simply Better Connections

VP3520

5 x 2 True 4K Seamless Presentation Matrix Switch with Control

The ATEN VP3520 is a multi-in-one presentation matrix switch that integrates a video matrix switch, 4K scaler, HDBaseT extender, and audio DSP functions into one compact device that easily mounts under a table or in a rack. The VP3520 seamless presentation matrix switch with control features the True 4K video resolutions of 4096 x 2160 / 3840 x 2160 @ 60 Hz (4:4:4) and HDR technology, guaranteeing crystal-clear images across two displays. The VP3520 supporting 4K @ 60 Hz, HDMI, and HDCP 2.2 features Seamless Switch™ that employs an FPGA matrix architecture that ensures continuous video streams, real-time control, and stable signal transmissions. With a built-in high-performance 4K scaler, the VP3520 easily converts various input resolutions into various output display resolutions, giving viewers the best video and picture quality across the two displays.

With flexible audio de-embedding, the VP3520 is designed with the audio routing flexibility to meet different application requirements. In a simple setup, HDMI audio can be connected and switched directly to display audio. For a more complex setup, the HDMI audio can be de-embedded to Audio Line Out in order to connect to your preferred in-room audio equipment. Equipped with 5 digital inputs to one HDBaseT and one HDMI True 4K separate outputs, the VP3520 enables users to control 2 displays at the same time and is designed to boost the efficiency and impact of professional presentations. The VP3520 provides users with the flexibility of using both active and passive speakers with its stereo line out port, coaxial port, and 2 x 10 W power amplifiers.

As for the control functions, the VP3520 offers users multiple control options through the front-panel pushbuttons, IR remote control, RS-232 commands, web-based GUI, and ATEN Video Presentation Control App. Moreover, the VP3520 enables the control over AV devices such as TV displays, projectors, and monitors. It is ideal for all meeting spaces and education environments, including huddle rooms, classrooms, training rooms, or any other presentation setting such as exhibition galleries or hotels.

Features

- Display Control
  - Auto display on / off control – supports display control through CEC, IR, RS-232, PJLink and controls projector screen through relay port
  - Flexible control methods – triggered by source detection or 4 function keys on front panel

- Digital AV Matrix Switching
  - Supports multi-format 5 inputs – 3 HDMI, 2 HDBaseT
  - 1 HDMI and 1 HDBaseT output
  - Audio embedding – stereo audio can be embedded into display output or separated to stereo line out and coaxial audio output
  - Audio de-embedding – HDMI / HDBaseT audio can be extracted to stereo line out
  - Built-in Audio DSP – supports microphone input with selectable 48 V Phantom Power and allows microphone input to be mixed with program audio and embedded into display output
  - Automatically reduces program audio when a microphone signal is detected
  - Auto switching – automatically detects and switches to a new source as soon as it is connected
  - Audio amplifier – 2 x 10 W built-in power amplifier with speaker outputs on terminal block connectors

- High-Definition Video with Optimum Output
  - Superior video quality – True 4K resolutions up to 4096 x 2160 @ 60 Hz (4:4:4) (HDMI) / 4096 x 2160 @ 60 Hz (4:2:0) (HDBaseT)
  - Supports 4K HDR
  - 4K Scaler –features a 4K video scaler to convert input resolutions to the optimum display resolutions
  - Seamless Switch™ –features close-to-zero second switching for continuous video streams, real-time switching, and stable signal transmissions
  - EDID Expert™ –automatically selects the optimum EDID settings for smooth power-up, high-quality display, and the best video resolution across the connected devices
  - HDMI; HDCP 2.2 compliant

- Versatile, Streamlined Operation
  - Multiple control options – flexible control via front-panel pushbuttons, IR remote control, RS-232, and web-based GUI through Ethernet
  - View the device status and control it via ATEN Video Presentation Control App in a swift and agile way.
  - RS-232 and IR channel – allows AV device control over HDBaseT connection without additional cabling
  - Supports stand-by mode for power saving and fast waking up
  - Consumer Electronics Control (CEC) support

- Extended Transmission over One Cable
  - Power over HDBaseT (PoH) – remote powering over existing communication cable with selectable powering device
  - Long-distance transmission – transmits digital AV signal, RS-232 commands, and IR control signals up to 70 m* via Cat 6/6a or ATEN 2L-2910 Cat 6 cables through HDBaseT Out port

    Note: This is achieved using both the HDBaseT In and the HDBaseT Out ports on the VP3520 with each extending the transmission up to 70 m.

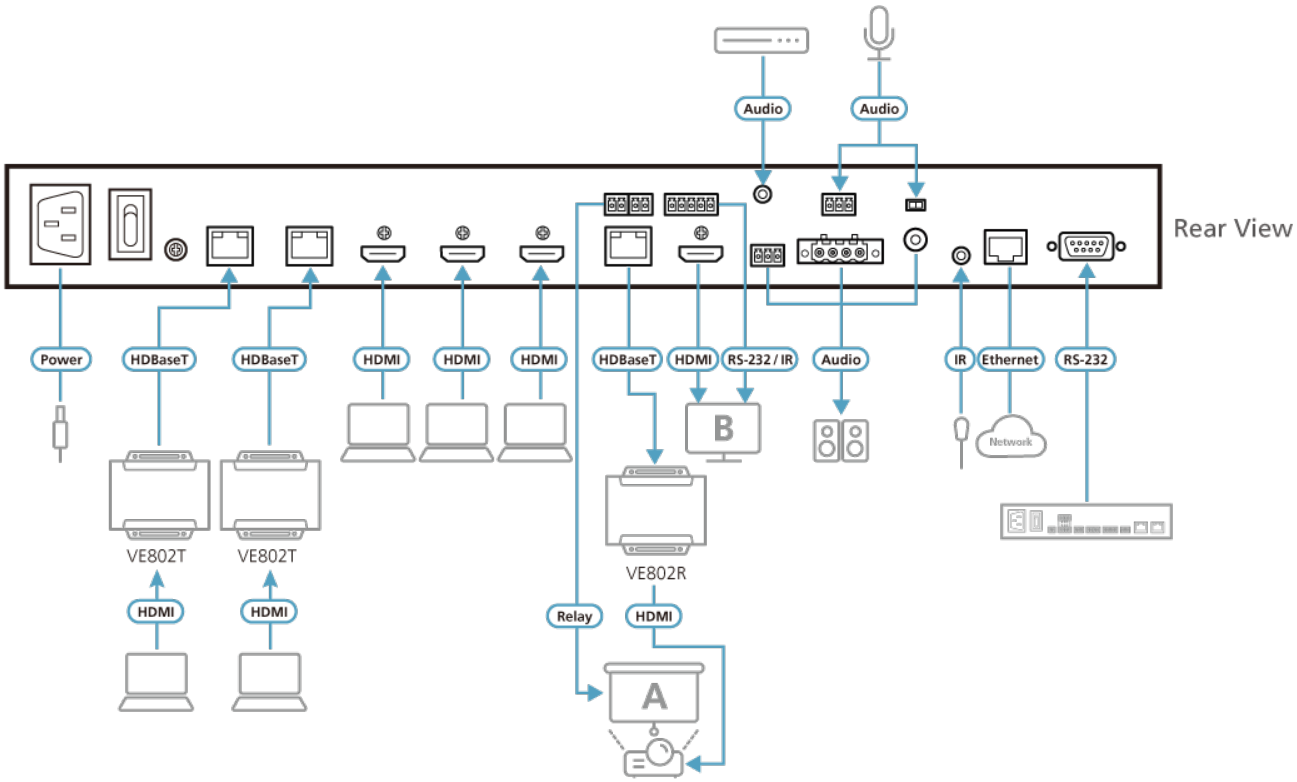
Specifications

Video Input	
Interfaces	3 x HDMI Type A female (Black) 2 x HDBaseT (RJ-45) Female (Silver) with PoH
Max. Distance	HDMI: 4K@60Hz (4:4:4) at 5m; 4K@30Hz at 10m; 1080p@60Hz at 15m HDBaseT: 4K@30Hz at 35m (Cat 5e/6) / 40m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@60Hz at 60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat6)
Video Output	
Interfaces	1 x HDMI Type A female (Black) 1 x HDBaseT (RJ-45) Female (Silver) with PoH
Max. Distance	HDMI: 4K@60Hz (4:4:4) at 5m; 4K@30Hz at 10m; 1080p@60Hz at 15m HDBaseT: 4K@30Hz at 35m (Cat 5e/6) / 40m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@60Hz at 60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat6)
Video	
Max. Resolution	HDMI: Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4) HDBaseT: Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0) ; Up to 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Compliance	HDMI; 4K HDR HDCP 2.2 Compatible; Consumer Electronics Control (CEC)
Audio	
Output	Line Out (Unbalanced): 1 x Captive Screw Connector, 3-pole Digital Audio: 1 x Coaxial Amplifier out: 1 x Captive Screw Connector, 4-pole

Input	Stereo Audio (HDMI/HDBT): 1 x mini stereo Jack female (Green) Microphone: 1 x Captive Screw Connector, 3-pole (with selectable phantom power)
Control	
RS-232	1x DB-9 Female (Black); VP device control & configuration 1 x Captive Screw Connector, 3-pole ; AV device control
IR	1 x Mini Stereo Jack Female (Black); VP device control 1 x Captive Screw Connector, 2-pole; AV device control
Ethernet	1 x RJ-45 Female (Silver); Support PJLink protocol
Interfaces	
Relay	2 x Captive Screw Connector, 2-pole
Switches	
Power	1 x Pushbutton (LED: Green / Orange) 1 x Slide Switch (+48V Phantom Power)
Video Input Port Selection	5 x Pushbutton (LED: Green)
Video Output Port Selection	2 x Pushbutton (LED: Orange)
Selection	Mic: 1 x Knob Volume: 1 x Knob Mode / Unlock: 1 x Pushbutton Function keys: 4x Pushbutton
EDID Settings	EDID Mode: ATEN Default / Display A / Remix
Connectors	
Power	1 x 3-Prong AC Socket
Power Consumption	AC110V:46.7W:314BTU/h AC220V:45.8W:310BTU/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.
Environmental	
Operating Temperature	0-40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	3.80 kg (8.37 lb)
Dimensions (L x W x H)	43.24 x 27.23 x 4.40 cm (17.02 x 10.72 x 1.73 in.)
Carton Lot	3 pcs
Note	For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.

Diagram

Connection Diagram



ATEN International Co., Ltd.
3F., No.125, Sec. 2, Datong Rd., Sijhih District., New Taipei City 221, Taiwan
Phone: 886-2-8692-6789 Fax: 886-2-8692-6767
www.aten.com E-mail: marketing@aten.com