

## **4K HDMI HDBaseT Receiver with Scaler VF816R**

 ATEN VE816R 4K HDMI HDBaseT Receiver with Scaler is designed to work with several ATEN HDBaseT Matrix Switches to extend 4K HDMI signals up to 100 m over a single Cat 5e/6/6a or an ATEN 2L-2910 Cat 6 cable, and at the same time, scales videos of different resolutions for optimal display.

Supporting bi-directional RS-232 channel and IR signaling pass-through, the VE816R provides users the path to remotely control the compatible devices. When working with ATEN HDBaseT Matrix, The VE816R features Frame Sync and Cable Quality Tester technologies to ensure smooth video and intuitive cable testing process.

When working with ATEN HDMI HDBaseT-Lite Matrix Switches, or Modular Matrix Switches with HDBaseT output boards, the VE816R supports video wall integration and ATEN's Seamless Switch™ function, providing users the ultimate A/V experiences.



























# **Features**

- Extends HDMI, RS-232, and IR signals up to 100 m over a single Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable
- HDCP 2.2 compatible
- Superior video quality:
  - 4K up to 100 m
  - 1080p up to 150 m
- HDBaseT Long Reach Mode activated by RS-232 commands, Long Reach Mode extends signals up to 150 m, 1080p, via a single Cat 5e/6 cable
- Scaler scales videos of different resolutions to their optimal output for display and to avoid black screen<sup>1</sup>
- Video Wall features video wall profiles that allows for custom screen layouts via an intuitive web GUI<sup>2</sup>
- Seamless Switch™ close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions²
- HDBaseT Anti-jamming resists signal interference during high-quality video transmissions using HDBaseT technology
- Bi-directional RS-232 channel allows for control using serial terminals or serial devices, such as touch screens and barcode scanners
- Bi-directional IR channel IR transmission is processed one direction at a time<sup>3</sup>
- Cable Quality Tester examines the category cable quality through signal level detection from HDBaseT Matrix Switches to the VE816R.
- FrameSync prevents image tearing by synchronizing the scaler output frame rate to the input signal frame rate
- Remote Firmware upgrade
- Built- in 8KV / 15 KV ESD protection
- Plug-and-play
- Rack-mountable

#### Note:

- 1. 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.
- 2. The Seamless Switch™ and video wall functionalities are available when the VE816R is used with ATEN HDBaseT Matrix. For further information, please see the compatible list below
- 3. Supports full-frequency IR signals from 30 KHz to 56 KHz.

## Highlights

In video wall mode, FrameSync prevents image tearing without adding or dropping frames by synchronizing the scaler output frame rate to the input signal frame rate and guarantees smooth video for high-motion elements, especially when a fast-moving object appears on the screen

FrameSync

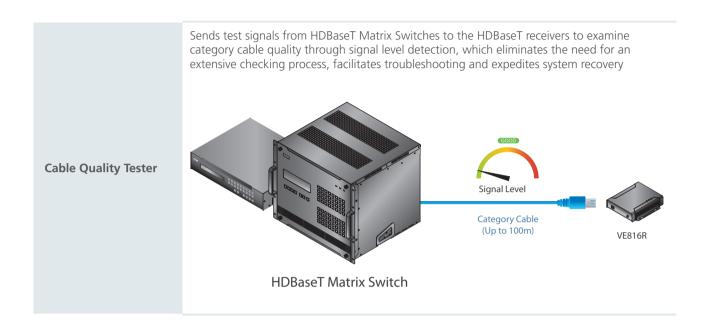




**Before** 

**After** 





### **Compatible Products**

Model	Description	Max. Distance	RS-232	IR	Seamless Switch	Video Wall
VM8514	4-Port HDBaseT Output Board	100 m / 150 m in Long Reach Mode	V	V	V	V
VM3404H	4 x 4 HDMI HDBaseT-Lite Matrix Switch	70 m	Х	V	V	V
VM3909H	9 x 9 HDMI HDBaseT-Lite Matrix Switch	70 m	Х	V	V	V

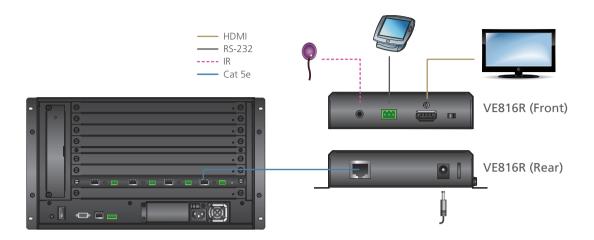
#### Note

- VM8514 is compatible with VE816R when plugged into ATEN Modular Matrix Switches (VM1600 and VM3200).
- For a complete list of compatible ATEN products, please visit the VE816R product web page.

### **Optional Accessories**

Description	Model
HDMI Cable	2L-7D02H-1 (2m), 2L-7D03H (3m), 2L-7D05H (5m), 2L-7D10H (10m),
Cat 6 Cable	2L-2910
Video Extender Rack Mount Kit	VE-RMK 1U





## **Specifications**

Functions	VE816R			
Video Output				
Interfaces	1 x HDMI Type A Female (Black)			
Impedance	100 Ώ			
Max. Distance	Up to 10 m			
Video	·			
Max. Data Rate	10.2 Gbps (3.40 Gbps per lane)			
Max. Pixel Clock	340 MHz			
Compliance	HDMI (3D, 4K, Deep Color) HDCP 2.2 Compatible HDBaseT Compatible			
Max. Resolutions / Distance	Up to 4K @ 70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p @ 100m (Cat 5e/6/6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)			
Connectors				
Unit To Unit	1 x RJ-45 Female			
Control				
IR Channel	1 x Mini Stereo Jack Female (Black)			
RS-232 Channel	1 x Terminal Block, 3 pole (Green)			
Switches				
Firmware Upgrade	1 x Slide Switch - ON/OFF			
Power				
Connectors	1 x DC Jack (Sliver)			
Consumption	DC 5V, 9.09W			
Environmental				
Operating Temperature	0° to 40° C			
Storage Temperature	-20° to 60° C			
Humidity	0 - 80% RH, Non-Condensing			
Physical Properties				
Housing	Metal			
Weight	0.67 kg			
Dimensions (L x W x H) with bracket	16.80 x 14.69x 3.00 cm			
Dimensions (L x W x H) without bracket	16.60 x 12.49 x 2.90 cm			

Product information is subject to change without prior notice.

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