

VE814AR

HDMI HDBaseT Receiver with Dual Output (4K@100m) (HDBaseT Class A)



ATEN VE814AR is an HDBaseT Video Receiver that is capable of receiving HDMI signals up to 100 m over a single Cat 5e/6/6a or ATEN [2L-2910](#) Cat 6 cable. This HDCP 2.2-compliant receiver meets the HDMI Specification, including 3D, Deep Color, the maximum data rate of (10.2 Gbps), and 4K video quality up to 100 m.

The VE814AR supports RS-232 and IR signaling pass-through, allowing you to control the HDMI source device from the remote unit (VE814AR) while granting access to the HDMI display device from the local unit ([VE814AT](#)). In addition, it supports Long Reach Mode that extends HDMI signals up to 150 m, 1080p, via a single Cat 5e/6 cable.

The VE814AR is a powerful solution for where digital signage is required, such as bars, educational spaces, and public transportation stations, allowing display of identical contents at different spots.



Features

- Extends HDMI signals to one local and two remote displays up to 100 m over a single Cat 5e/6/6a or ATEN [2L-2910](#) Cat 6 cable
- HDMI (3D, Deep Color, 4K); HDCP 2.2 compatible
- Superior video quality:
 - 4K up to 100 m
 - 1080p up to 150 m when in HDBaseT Long Reach Mode
- Extends Ethernet communication using the Ethernet pass-through port*
- Supports two IR channels for simultaneous IR signal transmissions, ranged from 30 KHz to 56 KHz
- ATEN EDID Technology -- when both transmitter and receiver sides are connected, [VE814A](#) adopts the EDID values of the display connected to the [VE814AT](#) for high-quality output
- RS-232 channel -- allows you to connect to serial terminals or serial devices, such as touch screens and barcode scanners
- Supports wide screen format
- Built-in 8 kV/15 kV ESD protection
- Plug-and-play
- Rack-mountable

Note: The function is supported by [VE814A-AT](#) only.

Specification

Video Output	
Interfaces	2 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	3 m
Video	
Max. Data Rate	10.2Gbps (3.4Gbps per lane)
Max. Pixel Clock	340 MHz

Compliance	HDMI (3D, Deep Color, 4K) HDCP2.2 Compatible Consumer Electronics Control (CEC)
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)
Audio	
Output	2 x HDMI Type A Female (Black)
Connectors	
Unit To Unit	1 x RJ-45 Female
Power	1 x DC Jack (Black) with locking
Control	
RS-232	Connector: 1 x Terminal Block, 3 pole Baud Rate: 57600, Data Bits:8, Stop Bits:1, no parity and flow control
IR	2 x Mini Stereo Jack Female (Black)
Ethernet	1 x RJ-45 Female Note: The RJ-45 ports is functional for device supporting the Ethernet port only
Switches	
Long Reach Mode Switch	1 x Slide Switch - ON/OFF
Firmware Upgrade	1 x Slide Switch - ON/OFF
Power Consumption	DC5V:7.87W:37BTU/h Note: <ul style="list-style-type: none"> ● 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	0.47 kg (1.04 lb)
Dimensions (L x W x H) with bracket	14.02 x 12.30 x 3.00 cm (5.52 x 4.84 x 1.18 in.)
Dimensions (L x W x H) without bracket	13.60 x 10.10 x 2.90 cm (5.35 x 3.98 x 1.14 in.)
Note	The VE814AR-AT supports Ethernet function and the VE814AR-ATA does not.

Diagram



*The Ethernet port is functional for device supporting the Ethernet port only

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



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