

## 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)<br>HDCP2.2 Compatible<br>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)<br>*4K supported:<br>4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);<br>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<br>Baud Rate: 57600, Data Bits:8,<br>Stop Bits:1, no parity and flow control   |
| IR                                     | 2 x Mini Stereo Jack Female (Black)  |
| Ethernet                               | 1 x RJ-45 Female<br>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<br><br>Note:<br><ul style="list-style-type: none"> <li>● The measurement in Watts indicates the typical power consumption of the device with no external loading.</li> <li>● The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.</li> </ul> |
| 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<br>(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<br>(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

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