

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

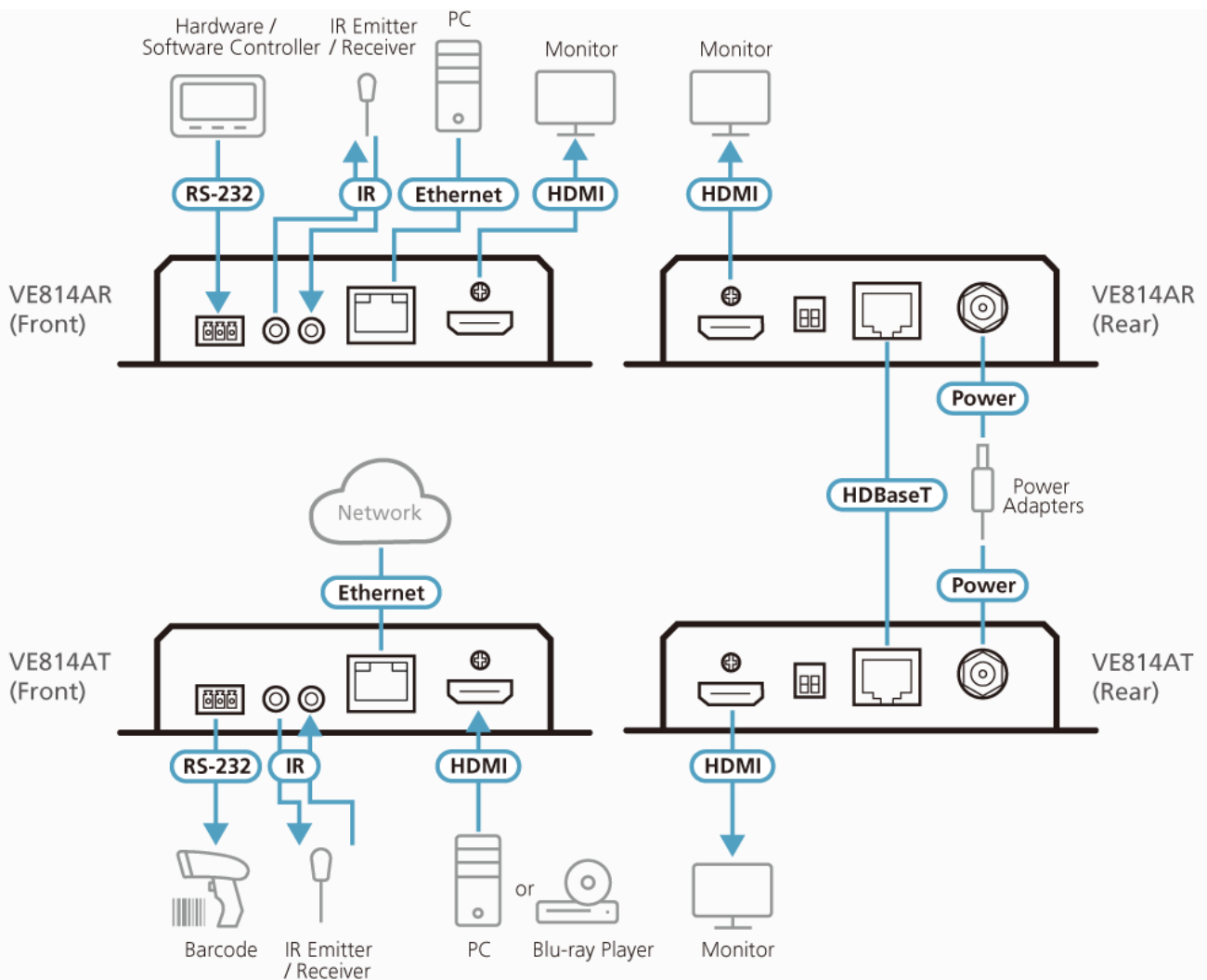
Note: The function is supported by [VE814A-AT](#) only.

Specifications

| | |
|------------------|--------------------------------|
| 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: ● 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

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