

VE814A

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



ATEN VE814A is an HDBaseT Video Extender that is capable of sending HDMI signals up to 100 m over a single Cat 5e/6/6a or ATEN [2L-2910](#) Cat 6 cable. Featuring dual synchronous outputs, the VE814A can transmit video signal to two remote displays and one at the local side. This HDCP 2.2-compliant extender 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 VE814A 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 VE814A 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.

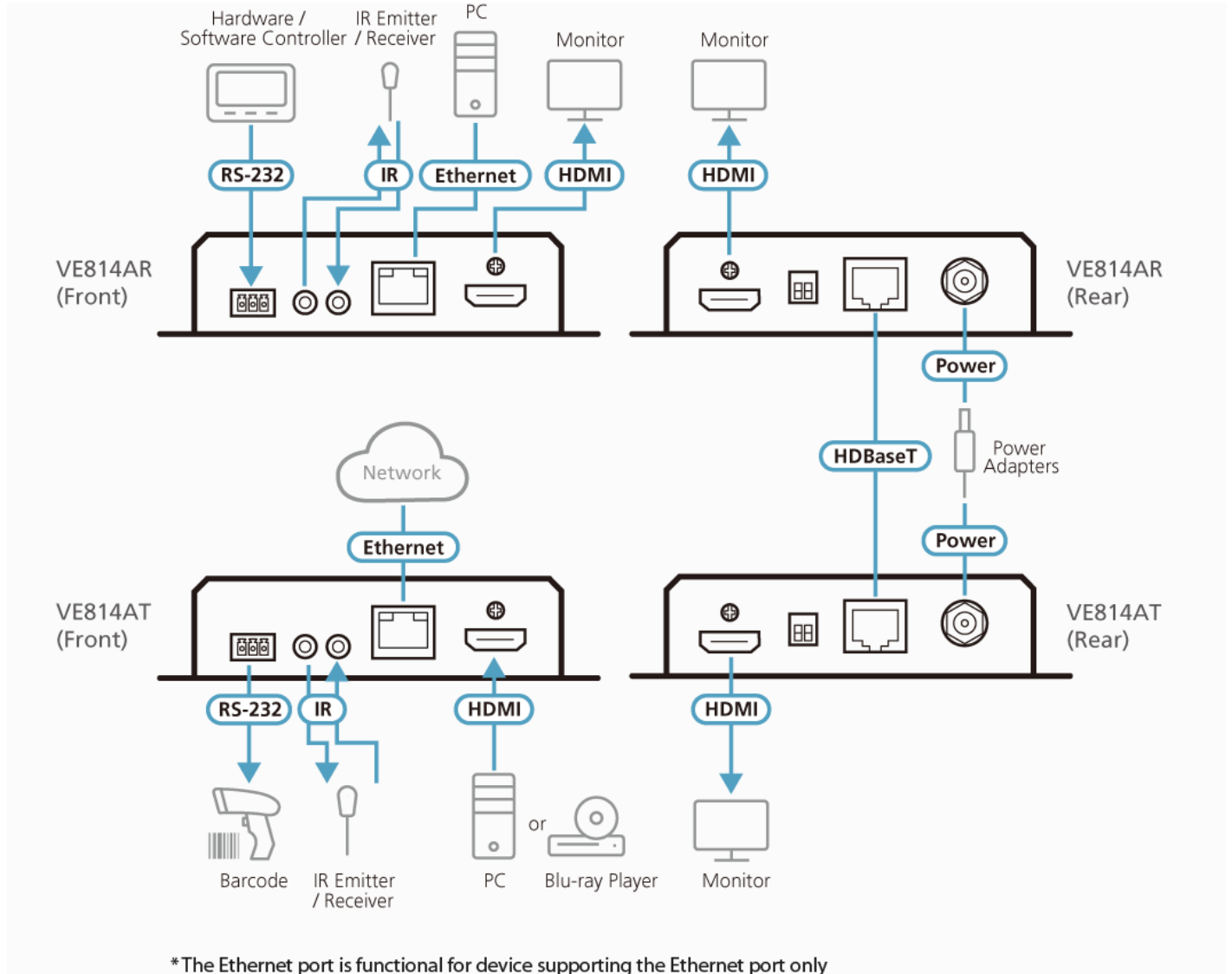
Specification

| Function | VE814AR | VE814AT |
|---------------|--------------------------------|--------------------------------|
| Video Input | | |
| Interfaces | N/A | 1 x HDMI Type A Female (Black) |
| Impedance | N/A | 100 Ω |
| Max. Distance | N/A | 3 m |
| Video Output | | |
| Interfaces | 2 x HDMI Type A Female (Black) | 1 x HDMI Type A Female (Black) |

| | | |
|--|--|--|
| Impedance | 100 Ω | 100 Ω |
| Max. Distance | 3 m | 3 m |
| Video | | |
| Max. Data Rate | 10.2Gbps (3.4Gbps per lane) | 10.2Gbps (3.4Gbps per lane) |
| Max. Pixel Clock | 340 MHz | 340 MHz |
| Compliance | HDMI (3D, Deep Color, 4K) HDCP2.2 Compatible Consumer Electronics Control (CEC) | 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) | 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 | | |
| Input | N/A | 1 x HDMI Type A Female (Black) |
| Output | 2 x HDMI Type A Female (Black) | 1 x HDMI Type A Female (Black) |
| Connectors | | |
| Unit To Unit | 1 x RJ-45 Female | 1 x RJ-45 Female |
| Power | 1 x DC Jack (Black) with locking | 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 | 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) | 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 | 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 | 1 x Slide Switch - ON/OFF |
| Firmware Upgrade | 1 x Slide Switch - ON/OFF | 1 x Slide Switch - ON/OFF |
| Power Consumption | DC5V:7.87W:37BTU 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. | DC5V:5.09W:24BTU 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 | 0 - 40°C |
| Storage Temperature | -20 - 60°C | -20 - 60°C |
| Humidity | 0 - 80% RH, Non-Condensing | 0 - 80% RH, Non-Condensing |
| Physical Properties | | |
| Housing | Metal | Metal |
| Weight | 0.47 kg (1.04 lb) | 0.45 kg (0.99 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.) | 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.) | 13.60 x 10.10 x 2.90 cm (5.35 x 3.98 x 1.14 in.) |

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| Note | The VE814A-AT supports Ethernet function and the VE814A-ATA does not. | The VE814A-AT supports Ethernet function and the VE814A-ATA does not. |
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Diagram


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