

# **VE814AT**

HDMI HDBaseT Transmitter with Local Output (4K@100m) (HDBaseT Class A)



ATEN VE814AT is an HDBaseT Video Transmitter 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 VE814AT can transmit video signal to two remote displays and one at the local side. This HDCP 2.2-compliant transmitter 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 VE814AT 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 (VE814ÅT). In addition, it supports Long Reach Mode that extends HDMI signals up to 150 m, 1080p, via a single Cat 5e/6 cable.

The VE814AT 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
- 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

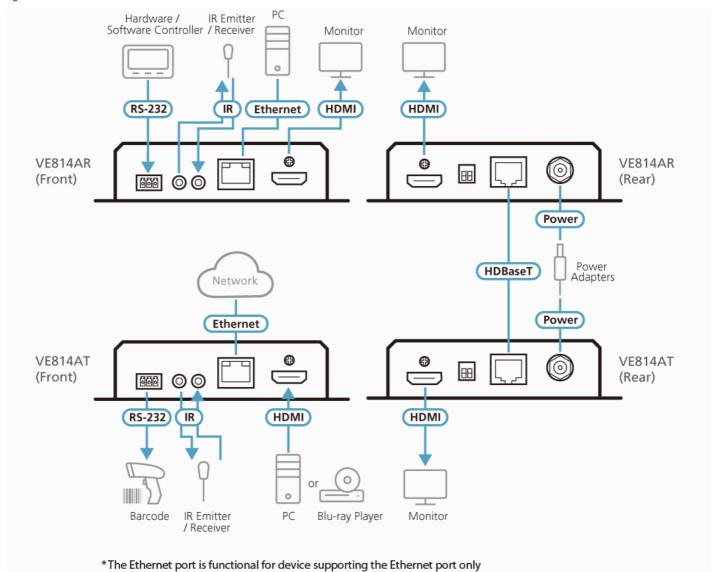
Video Input	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	3 m
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω



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		
Input	1 x HDMI Type A Female (Black)	
Output	1 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:5.09W:24BTU/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	0.45 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.)	
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 VE814AT-AT supports Ethernet function and the VE814AT-ATA does not.	



# Diagram



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