Simply Better Connections

VE2812T

HDMI & VGA HDBaseT Transmitter (4K@100m) (HDBaseT Class A)

3 YEAR WARRANTY

ATEN VE2812T is a transmitter for sending VGA (with audio) and HDMI signals up to 100 m over a single Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable. The VE2812T guarantees reliable transmission of HDMI signals, supporting 3D, Deep Color, and embedded HD lossless audio formats. It also ensures transmission of VGA (with audio) at distance up to 100 m. In addition, it supports Long Reach Mode up to 150 m via a single Cat 5e/6 cable at resolutions up to 1080p.

For utility flexibility, the VE2812T can serve as a video switch by connecting two sources and distribute them to an identical output. The VE2812T is recommended to be deployed in paired with the VE2812R. The VE2812R can carry on IR/RS-232 from the VE2812R to theVE2812T, allowing users to remotely control the VE2812T unit through RS-232 command mode via input port switching. The solution is deal for a variety of settings,such as meeting rooms, digital educational environment or wherever high video quality is required.

4K HDBT Recommended HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

Features

- Extends HDMI or VGA signals over a single Cat 5e/6/6a cable
- HDMI (3D, Deep color, 4K); HDCP compatible
- Superior video quality:
  • 4K / 1080p at distance up to 100 m via a Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable
  • VGA 1600 x 1200 and 1920 x 1200 up to 100 m via a Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable
- Supports HDBaseT Long Reach Mode – up to 150 m via a single Cat 5e/6 cable at resolutions up to 1080p
- Supports Auto Switch – the VE2812T automatically switches to a newly plugged-in source
- Functions as a switch or a converter :
  • A Switch: Connects two sources (HDMI or VGA)
  • A converter: Applies receivers with different interface (DVI, DisplayPort, or HDMI)
- RS-232 Channel Transmission – allows you to connect to serial terminals or serial devices, such as touch screens and barcode scanners
- Compatible Receivers – VE2812R, VE1812R, VE811R, VE814AR, VE801R, VE802R, VE601R, VE901R, or future ATEN HDBaseT Receivers
- Plug-and-play with no software installation required
- Rack mountable
- Built- in 8KV / 15 KV ESD protection

Specification

Video Input	
Interfaces	1 x HDMI Type A Female (Black) 1 x HDB-15 (VGA) Female (Blue)

Impedance	HDMI: 100 Ω HDB-15 (VGA): 75 Ω
Max. Distance	1.8 m
Video	
Max. Data Rate	10.2Gbps (3.4Gbps per lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	HDMI: Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a) VGA: Up to 1920x1200 & 1600x1200@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1920x1080@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) 1 x Mini Stereo Jack Female (Green)
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; Type: DTE Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control
IR	1 x Mini Stereo Jack Female (Black)
Switches	
Video Input Port Selection	1 x Push Button - HDMI, VGA and AUTO
Long Reach Mode Switch	1 x Slide Switch - ON/OFF
Firmware Upgrade	1 x Slide Switch - ON/OFF
Power Consumption	DC5V:2.99W:14BTU/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	14.32 x 12.30 x 3.00 cm (5.64 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.)

Diagram

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