# HDMI & VGA HDBaseT Transmitter

## VE2812T

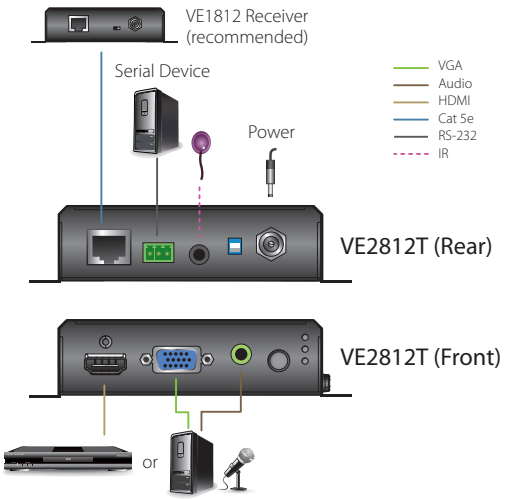
ATEN VE2812T is a transmitter for sending VGA (with audio) and HDMI signals up to 100 m over a single Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable. The VE2812T guarantees reliable transmission of HDMI signals, supporting 3D, Deep Color, and embedded HD lossless audio formats. It also ensures transmission 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, theVE2812T can serve as a video switch by connecting two sources and distribute them to an identical output. The VE2812T is designed for use in meeting rooms or digital educational environment where high video quality is required.

HDMI · HDBT · A/V In · HDMI · VGA · 4kx2k · Long Reach Mode · RS-232 Channel · IR Channel

## 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 – 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




## Specifications

| Function | VE2812T |
|---|---|
| **Video Input** | |
| Interfaces | 1 x HDMI Type A Female (Black)<br>1 x HDB-15 (VGA) Male (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)<br>HDCP Compatible<br>Consumer Electronics Control (CEC) |
| Max. Resolutions / Distance | HDMI: Up to 4K @ 70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat 6); 1080p @ 100m (Cat 5e/6/6a)<br>VGA: Up to 1920 x 1200 & 1600 x 1200 @ 70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat 6)<br>1920 x 1080 @ 100 m (Cat5e/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** | |
| Input | 1 x HDMI Type A Female (Black)<br>1 x Mini Stereo Jack Female (Green) |
| **Control** | |
| RS-232 | Connector: 1 x Terminal Block, 3 pole<br>Baud Rate: 19200, Data Bits:8,<br>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** | |
| Connectors | 1 x DC Jack (Black) with locking |
| Consumption | DC 5V, 3W |
| **Environmental** | |
| Operating Temperature | 0° to 40° C |
| Storage Temperature | -20° to 60° C |
| Humidity | 0 - 80% RH, Non-Condensing |
| **Physical Properties** | |
| Housing | Metal |
| Weight | 0.47 kg |
| Dimensions (LxWxH) with bracket | 14.32 x 12.30 x 3.00 cm |
| Dimensions (LxWxH) without bracket | 13.60 x 10.10 x 2.90 cm |

***ATEN International Co., Ltd.***
3F., No.125, Sec. 2, Datong Rd., Sijhih District., New Taipei City 221, Taiwan
Phone: 886-2-8692-6789 Fax: 886-2-8692-6767
www.aten.com E-mail: marketing@aten.com

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