

## VE2812UST

HDMI & VGA HDBaseT Transmitter with US Wall Plate (4K@100m) (HDBaseT Class A)



ATEN VE2812UST 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. With US Wall Plate design, the VE2812UST can be conveniently mounted in a two-gang junction box. The VE2812UST guarantees reliable transmission of HDMI / VGA signals. For HDMI signal transmission, it supports 3D, Deep Color, and embedded HD lossless audio formats. To pursue longer distance transmission, 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 VE2812UST can serve as a video switch by connecting two sources and distribute them to an identical output. The compact wall plate design does away with bulky cables, allowing a neat and convenient installation. Therefore, The VE2812UST is specifically designed for use in meeting rooms, digital educational environment or wherever needed to meet application requirements.



### Features

- Extends HDMI or VGA signals over a single Cat 5e/6/6a or ATEN [2L-2910](#) Cat 6 cable
- Designed to mount in two- gang junction box
- HDMI 1.4 (3D, Deep color, 4K); HDCP 2.2 compliant
- Superior video quality:
  - HDMI: 4K at distance up to 100 m via a Cat 6a or ATEN [2L-2910](#) Cat 6 cable
  - VGA: 1600 x 1200 and 1920 x 1200 up to 100 m via a Cat 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 – 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)
- Supports RS-232 channel transmission or command mode for source switch control
- Compatible Receivers – [VE1812R](#), [VE812R](#), [VE814AR](#), [VE811R](#), [VE801R](#), [VE802R](#), [VE601R](#), [VE901R](#) or future ATEN HDBaseT Receivers
- Plug-and-play
- Built-in 8KV / 15 KV ESD protection
- LED indication of sources and device status

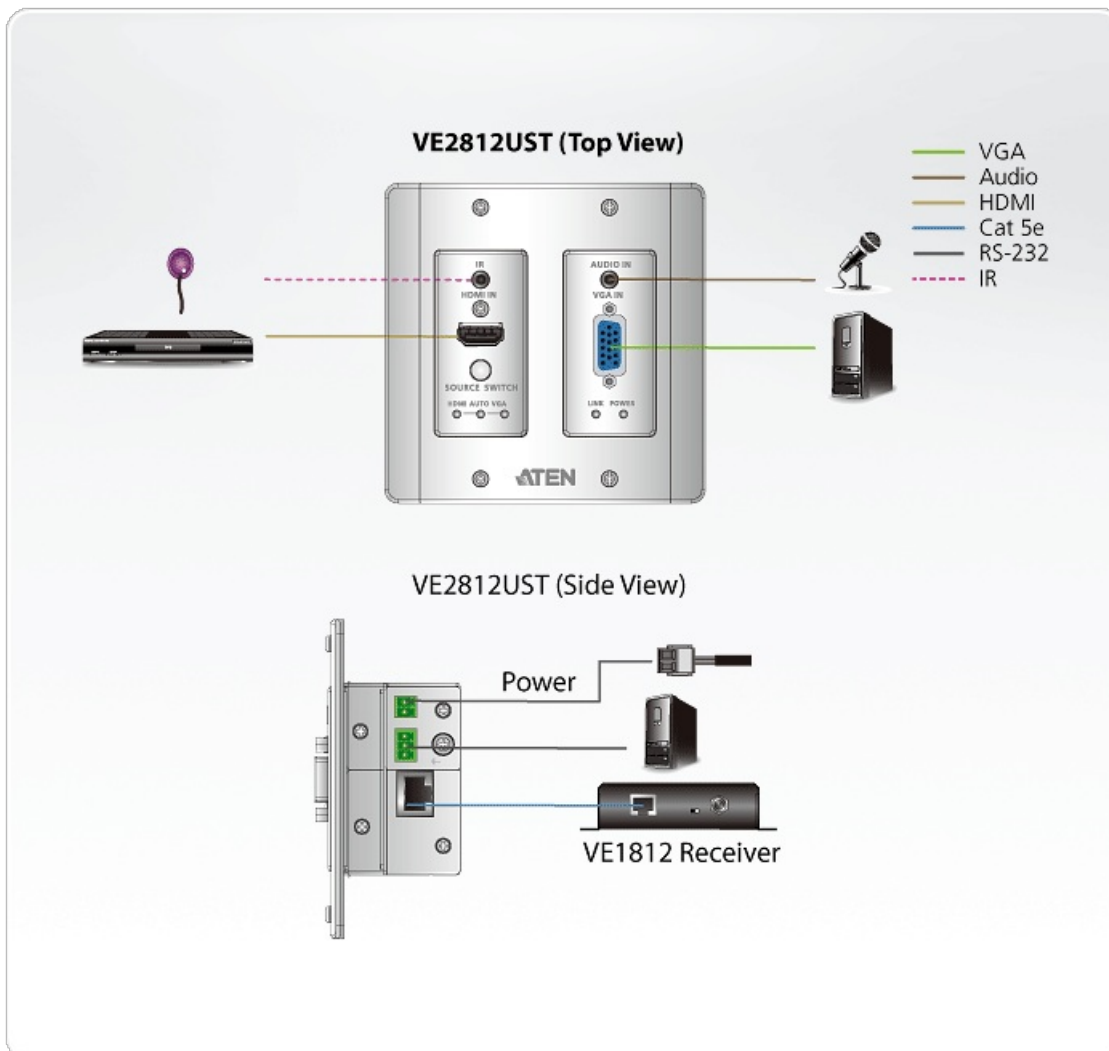
### Specifications

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

|                             |  |
|-----------------------------|--|
| Impedance                   | HDMI: 100 $\Omega$<br>HDB-15 (VGA): 75 $\Omega$  |
| 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 Cat6); 1080p@100m (Cat 5e/6/6a)<br>VGA: Up to 1920x1200 & 1600x1200@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6);<br>1920x1080@100m (Cat 5e/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)  |
| Connectors                  |  |
| Unit To Unit                | 1 x RJ-45 Female   |
| Power                       | 1 x Terminal Block, 2 pole (Green)   |
| Control                     |  |
| RS-232                      | Connector: 1 x Terminal Block, 3 pole (Green)<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 Consumption           | DC5V:3.04W:14.25BTU/h<br><br>Note:<br>● The measurement in Watts indicates the typical power consumption of the device with no external loading.<br>● 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                           | 0.29 kg ( 0.64 lb )   |
| Dimensions (L x W x H)           | 10.42 x 8.79 x 5.19 cm<br>(4.1 x 3.46 x 2.04 in.)   |
| Faceplate Dimensions (L x W x H) | 11.43 x 11.43 x 0.60 cm<br>(4.5 x 4.5 x 0.24 in.)   |
| Note                             | For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format. |

#### Diagram



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