

# DisplayPort / HDMI / VGA Switch with HDBaseT Transmitter

## VE3912T

The ATEN VE3912T is an HDBaseT transmitter that extends 4K DisplayPort, HDMI, or VGA video signals up to 100 m over a single Cat 6 / 6a or ATEN 2L-2910 Cat 6 cable. Featuring multiple video input formats and output resolutions up to 4K, it ensures a superior video quality for applications that require digital / analog sources conversion and extension.

This HDCP 2.2 compliant transmitter meets the HDMI specification, including 3D, Deep Color, and 4K x 2K video quality. The Auto Switch Mode allows the VE3912T to automatically switch to a newly plugged-in source. With its built-in PoH (Power over HDBaseT) function, it can receive power from the HDBaseT output port on the connected device, eliminating the need for a power adapter. As a combination of extension and switch for both digital and analog inputs, VE3912T is recommended to be deployed in settings with multiple source inputs, such as conference rooms, digital educational environment or wherever integration and simplification are required.



Top View

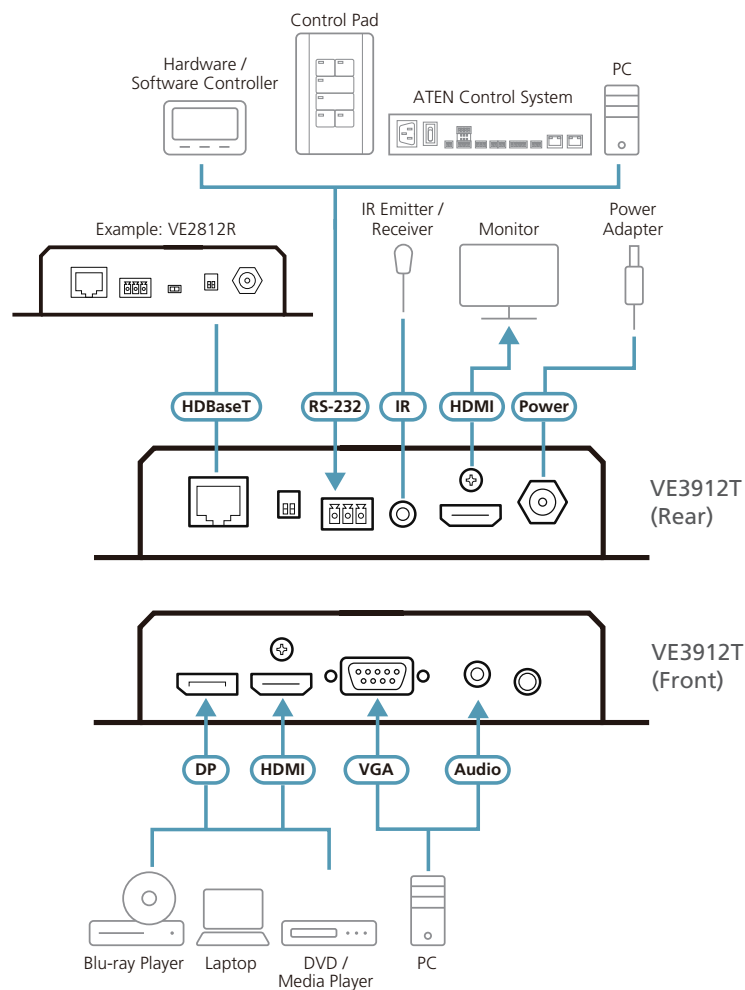


Front View



Rear View





## Features

- Extends DisplayPort, HDMI or VGA signals up to 100 m over a single Cat 6 / 6a or ATEN 2L-2910 Cat 6 cable
- Supports multiple source inputs (DisplayPort / HDMI / VGA) – easily switching among sources via a pushbutton
- Auto Switch Mode – allows the VE3912T to automatically switch to a newly plugged-in source
- HDMI (3D, Deep Color, 4k); HDCP 2.2 compliant
- Superior video quality:
  - HDMI / DisplayPort: 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
- HDBaseT Long Reach Mode – up to 150 m via a single Cat 5e / 6 cable at resolutions up to 1080p
- Mirrored Video Output – supports 4K@30Hz, 4:4:4 over the HDBaseT output, and a local HDMI output
- PoH (Power over HDBaseT) – with its built-in PoH function, it receives power from the HDBaseT output port on the connected device
- Perfect HDBaseT compatibility – compatible with ATEN HDBaseT receivers, available to deliver crystal video and audio signals to DisplayPort / HDMI / VGA output port
- Features RS-232 Serial Communication Switch – Command mode and Bypass mode to meet application requirements; users can command input port switch through RS-232 of receiver, such as VE2812R
- EDID Expert™ – selects optimum EDID settings for high-quality display and use HDBaseT output as priority of optimum video resolution
- Plug-and-play with no software installation required
- Rack-mountable
- Built-in 8KV / 15KV ESD protection

## Specifications

VE3912T	
<b>Video Input</b>	
Interfaces	1 x HDMI Type-A Female (Black) 1 x HDB-15 (VGA) Female (Blue) 1 x DisplayPort Female (Black)
Impedance	HDMI: 100 Ω; HDB-15 (VGA): 75 Ω; DisplayPort: 100 Ω
Max. Distance	HDMI: 5m @ 4K@30Hz HDB-15(VGA): 10m @ 1920x1600 DisplayPort: 3m @ 4K@30Hz
<b>Video Output</b>	
Interfaces	1 x HDMI Type-A Female (Black)
Impedance	100 Ω
Max. Distance	HDMI: 5m at 4K @ 30Hz; 3m at 4K @ 60Hz (4:4:4)
<b>Video</b>	
Max. Data Rate	10.2Gbps (3.4Gbps Per Lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP 2.2 Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	HDMI / DisplayPort: Up to 4K @ 70m (Cat 5e / 6) / 100m (Cat 6a / ATEN 2L-2910 Cat 6); 1080p @ 100m (Cat 5e / 6 / 6a) VGA: Up to 1920 x 1200 & 1600 x 1200 @ 70m (Cat 5e / 6) / 100m (Cat 6a / ATEN 2L-2910 Cat 6); 1920 x 1080 @ 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)
<b>Audio</b>	
Input	1 x HDMI Type-A Female (Black) 1 x Mini Stereo Jack Female (Green) 1 x DisplayPort Female (Black)
<b>Connectors</b>	
Unit To Unit	1 x RJ-45 Female (Silver), HDBaseT
Power	1 x DC Jack (Black) with locking or 1 x RJ-45 Female (PoH)
<b>Control</b>	
RS-232	Connector: 1 x Terminal Block, 3 pole; Type: DTE Baud Rate: 115200, Data Bits: 8, Stop Bits: 1, no parity and flow control
IR	1 x Mini Stereo Jack Female (Black)
<b>Switches</b>	
Video Input Port Selection	1 x Push Button - AUTO, DisplayPort, HDMI and VGA
Long Reach Mode Switch	1 x Slide Switch - ON/OFF ON: Up to 150m @ 1080p (max.) OFF: Up to 100m @ 4K@30Hz (max.)
Firmware Upgrade	1 x Slide Switch - ON/OFF
<b>Power Consumption</b>	
	DC 5 V : 7.02 W : 40 BTU PoE : 8.77 W : 48 BTU
<b>Environmental</b>	
Operating Temperature	0 - 40 °C
Storage Temperature	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing
<b>Physical Properties</b>	
Housing	Metal
Weight	0.65 kg
Dimensions (L x W x H) with bracket	17.29 x 14.69 x 3.00 cm
Dimensions (L x W x H) without bracket	16.60 x 12.49 x 2.90 cm

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