

VE1812R

HDMI HDBaseT Receiver with PoH (4K@100m) (HDBaseT Class A) (PoH PD)



The VE1812R features Power over HDBaseT (PoH) which sends power from Tx to Rx over Cat 5e / 6 / 6a cable without any additional power supply. The VE1812R supports RS-232 and IR signaling pass-through, allowing users to control the HDMI source device from the receiver unit (VE1812R) while also accessing the HDMI display device from the transmitter unit ([VE1812T](#)). The IR signals can also be extended in both directions.

The VE1812R HDMI HDBaseT Receiver with PoH is HDMI (3D, Deep Color, 4K) and HDCP compatible. When transmitting HDMI / 4K with a Cat 6a or ATEN [2L-2910](#) Cat 6 cable, the maximum distance can reach up to 100 meters. With Long Reach Mode enabled, the VE1812R can extend HDMI signal up to 150m @1080p. The VE1812R is perfect for digital classrooms, video conference rooms, gaming or any installation that requires superior video quality.



Features

- HDBaseT Connectivity – extends an HDMI connection over a long distance via one Cat 5e / 6 / 6a cable
- Superior video quality:
 - 4K up to 100 m over a Cat 6a or ATEN [2L-2910](#) Cat 6 cable
 - 1080p up to 150 m when in HDBaseT Long Reach Mode
- HDBaseT Anti-jamming – resists signal interference during high-quality video transmission using HDBaseT technology
- PoH (Power over HDBaseT) – supplies power from Transmitter to Receiver over a long distance via one Cat 5e / 6 / 6a cable
- Bi-directional RS-232 channel – allows you to connect to serial terminals or serial devices, such as touch screens and barcode scanners
- Bi-directional IR channel – Two way IR protocol delivery by one IR port; IR transmission is processed one direction at a time
- Rack- Mountable

Specification

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	
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 or 1 x RJ-45 (Power Over HDBaseT, POH)
Control	
RS-232	Connector: 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control
IR	1 x Mini Stereo Jack Female (Black)
Switches	
Long Reach Mode Switch	1 x Slide Switch - ON/OFF
Firmware Upgrade	1 x Slide Switch - ON/OFF
Power Consumption	DC5V:4.26W:20BTU/h POH:5.33W:25BTU/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	14.04 x 12.30 x 3.00 cm (5.53 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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