

## VE1830

True 4K HDMI HDBaseT-Lite Extender (True 4K@35m) (HDBaseT Class B)



The VE1830 True 4K HDMI HDBaseT-Lite Extender provides great flexibility in professional A/V installation with its high-quality transmitter VE1830T and receiver VE1830R. Powered by [HDBaseT™](#) technology, the VE1830 transmits True 4K HDMI signals up to 35m using a single Cat 5e/6 cable. This HDBaseT-Lite Extender supports HDCP 2.2 and meets the HDMI specifications (3D, Deep Color, 4k) to ensure visually lossless high quality video and image. In addition, it features PoC (Power over Cable) which can power the receiver unit from the transmitter side with power supply. The VE1830 offers an easy-to-use and cost-effective solution for professional A/V installations that require superior HDMI video quality, such as in digital classrooms, video conference rooms and home theater.



### Features

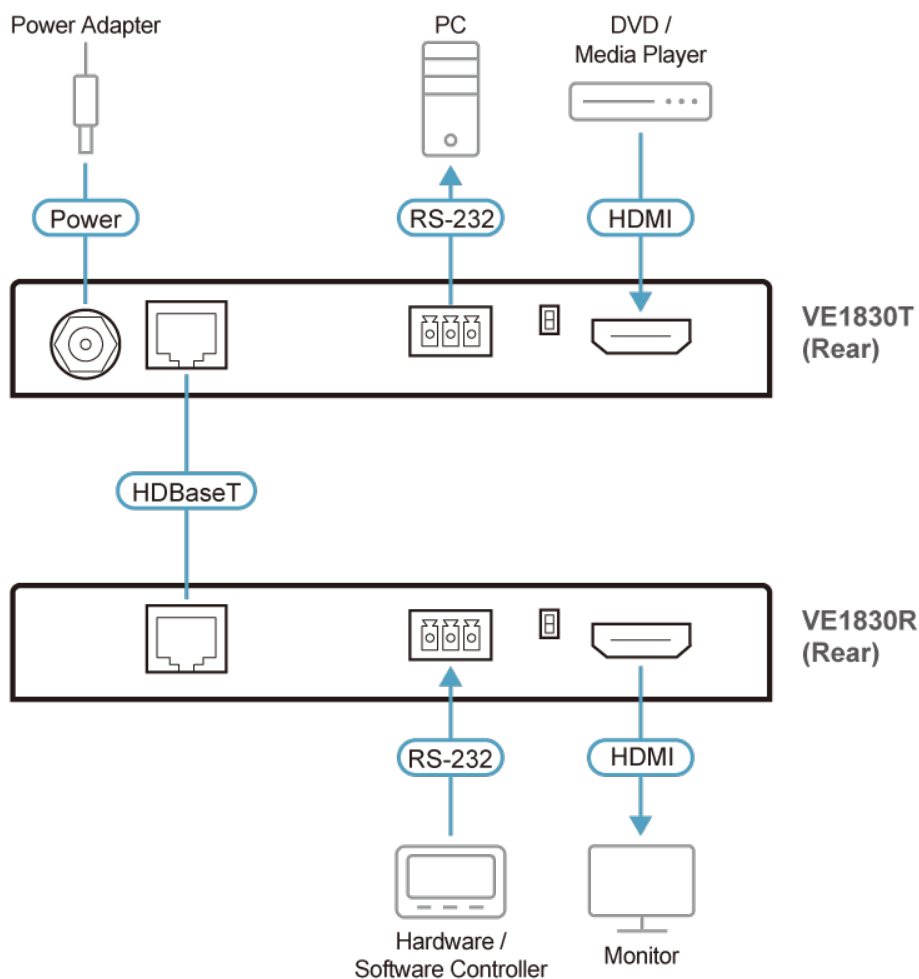
- HDMI (3D, Deep Color, True 4K); HDCP 2.2 compliant
- Superior video quality
  - Extends True 4K HDMI signals (3840 x 2160 @ 60Hz 4:4:4) up to 35 m
  - Extends Full HD 1080p signals up to 70 m
- Supports HDR10+
- Features PoC (Power over Cable) – supplies power from the VE1830T unit to the VE1830R unit
- Features RS-232 serial port for connecting peripherals such as touch screens, and barcode scanners
- Plug-and-play
- Compact size for space saving
- Rack-mountable with attached rack mounting kit in the package

### Specifications

| Function         | VE1830R                        | VE1830T                        |
|------------------|--------------------------------|--------------------------------|
| Video Input      |                                |                                |
| Interfaces       | N/A                            | 1 x HDMI Type A Female (Black) |
| Impedance        | N/A                            | 100 Ω                          |
| Max. Distance    | N/A                            | 5 m                            |
| Video Output     |                                |                                |
| Interfaces       | 1 x HDMI Type A Female (Black) | N/A                            |
| Impedance        | 100 Ω                          | N/A                            |
| Max. Distance    | 5 m                            | N/A                            |
| Video            |                                |                                |
| Max. Data Rate   | 10.2Gbps (3.4Gbps per lane)    | 10.2Gbps (3.4Gbps per lane)    |
| Max. Pixel Clock | 594 MHz                        | 594 MHz                        |

|                             |   |   |
|-----------------------------|---|---|
| Compliance                  | HDMI 2.0 (3D, Deep Color, 4K); 4K HDR<br>HDCP2.2 Compatible<br>Consumer Electronics Control (CEC)   | HDMI 2.0 (3D, Deep Color, 4K); 4K HDR<br>HDCP2.2 Compatible<br>Consumer Electronics Control (CEC)   |
| Max. Resolutions / Distance | Up to True 4K: 3840 x 2160 @ 60Hz (4:4:4) @35m (Cat 5e/6);<br>Up to 1080p@70m (Cat6a/ATEN 2L-2910 Cat6)   | Up to True 4K: 3840 x 2160 @ 60Hz (4:4:4) @35m (Cat 5e/6);<br>Up to 1080p@70m (Cat6a/ATEN 2L-2910 Cat6)   |
| Supported Resolutions       | 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0) @35m (Cat5e/6);<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) @35m (Cat5e/6);<br>1080P@60m (Cat 5e/6)  | 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0) @35m (Cat5e/6);<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) @35m (Cat5e/6);<br>1080P@60m (Cat 5e/6)  |
| Audio                       |   |   |
| Input                       | N/A   | 1 x HDMI Type A Female (Black)  |
| Output                      | 1 x HDMI Type A Female (Black)  | N/A   |
| Connectors                  |   |   |
| Unit To Unit                | 1 x RJ-45 Female  | 1 x RJ-45 Female  |
| Power                       | 1 x RJ-45 Female<br>(Power over Cable, power supply from VE1830T)   | 1 x DC Jack (Black) with locking  |
| Control                     |   |   |
| RS-232 Channel              | Connector: 1 x Terminal Block, 3 pole   | Connector: 1 x Terminal Block, 3 pole   |
| Power Consumption           | POC 8W: 38BTU/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. | DC12V:4W: 19BTU/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. |
| Switches                    |   |   |
| Firmware Upgrade            | 1 x Slide Switch - ON/OFF   | 1 x Slide Switch - ON/OFF   |
| Environmental               |   |   |
| Operating Temperature       | 0 - 40°C  | 0 - 40°C  |
| Storage Temperature         | -20 - 60°C  | -20 - 60°C  |
| Humidity                    | 0 - 80% RH, Non-Condensing  | 0 - 80% RH, Non-Condensing  |
| Physical Properties         |   |   |
| Housing                     | Metal   | Metal   |
| Weight                      | 0.12 kg ( 0.28 lb )   | 0.15 kg ( 0.35 lb )   |
| Dimensions (L x W x H)      | 11.86 x 7.19 x 1.68 cm<br>(4.67 x 2.83 x 0.66 in.)  | 11.86 x 7.19 x 1.68 cm<br>(4.67 x 2.83 x 0.66 in.)  |
| Note                        | For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.   |   |

Diagram



\*Only connect VE1830T with VE1830R.

Connecting VE1830T with other receiver models or third-party receivers may cause physical damage to the receiver.

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