

True 4K HDMI HDBaseT-Lite Extender

VE1830

The VE1830 True 4K HDMI HDBaseT-Lite Extender provides great flexibility in professional AV 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 AV installations that require superior HDMI video quality, such as in digital classrooms, video conference rooms, and home theater.



VE1830T Front View



VE1830R Front View



VE1830T Rear view

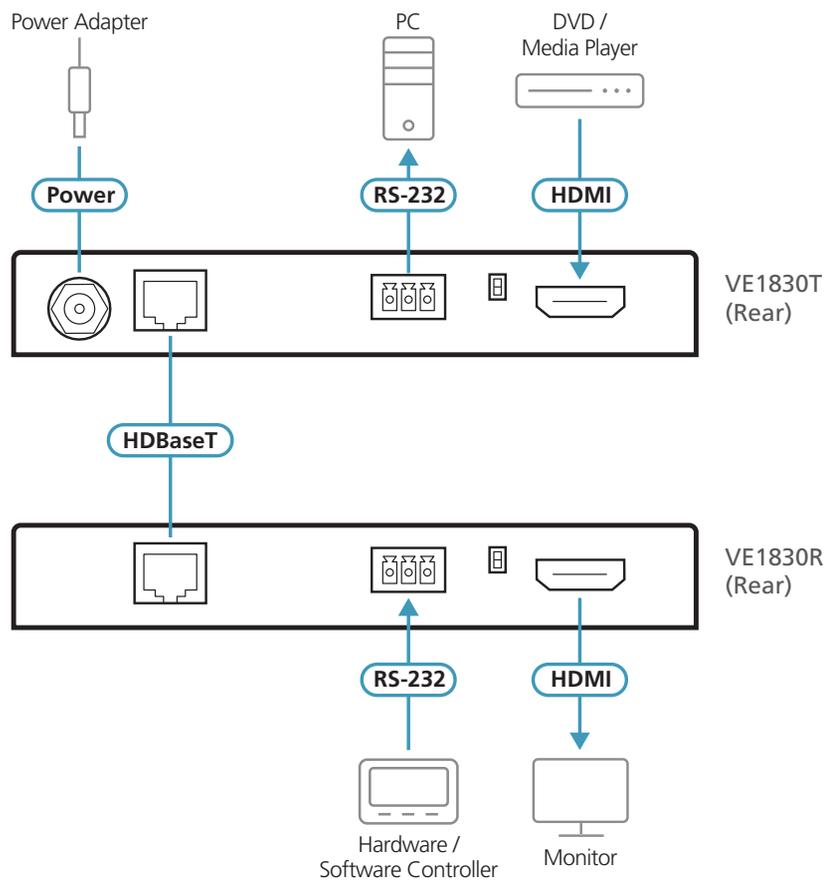


VE1830R Rear view



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



*Only connect VE1830T with VE1830R.

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

Specifications

| | 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 | 10.2 Gbps (3.4 Gbps per lane) | 10.2 Gbps (3.4 Gbps per lane) |
| Max. Pixel Clock | 594 MHz | 594 MHz |
| Compliance | HDMI (3D, Deep Color, 4K); HDR 10+ HDCP2.2 Compatible Consumer Electronics Control (CEC) | HDMI (3D, Deep Color, 4K); HDR 10+ HDCP2.2 Compatible Consumer Electronics Control (CEC) |
| Max. Resolutions / Distance | Up to True 4K: 3840 x 2160 @ 60Hz (4:4:4) @35m (Cat 5e/6); Up to 1080p@70m (Cat6a/ATEN 2L-2910 Cat6) | Up to True 4K: 3840 x 2160 @ 60Hz (4:4:4) @35m (Cat 5e/6); Up to 1080p@70m (Cat6a/ATEN 2L-2910 Cat6) |
| Supported Resolutions | 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0) @35m (Cat5e/6); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) @35m (Cat5e/6); 1080P@60m (Cat 5e/6) | 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0) @35m (Cat5e/6); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) @35m (Cat5e/6); 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 (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 | DC 12V:4W |
| 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 | 0.15 kg |
| Dimensions (L x W x H) with bracket | 11.86 x 7.19 x 1.68 cm | 11.86 x 7.19 x 1.68 cm |

ATEN International Co., Ltd.

3F., No.125, Sec. 2, Datung 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

Product information is subject to change without prior notice.

Released: 06/2023 V2.0

© Copyright 2023 ATEN® International Co. Ltd.
 ATEN and the ATEN logo are registered trademarks of ATEN International Co., Ltd.
 All rights reserved. All other trademarks are the property of their respective owners.
 The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

