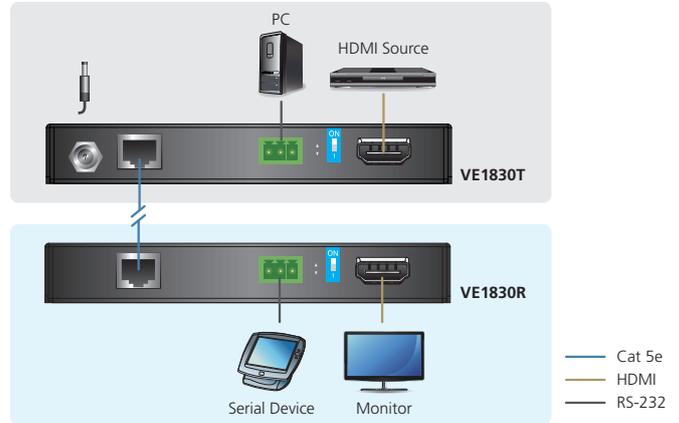# True 4K HDMI HDBaseT-Lite Extender
VE1830

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. ThisHDBaseT-Lite Extender supports HDCP 2.2 and meets the HDMI 2.0a specifications (3D, Deep Color, 4k) to ensure visually loseless 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.

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	1.8 m
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Video		
Max. Data Rate	10.2Gbps (3.4Gbps per lane)	10.2Gbps (3.4Gbps per lane)
Max. Pixel Clock	340 MHz	340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolution	True 4K: 3840 x 2160 @ 60Hz (4:4:4)	True 4K: 3840 x 2160 @ 60Hz (4:4:4)
Max. Resolutions / Distance	Up to True 4K & 4K@35m (Cat 5e/6); 1080p@60m (Cat 5e/6) / 70m (Cat6a/ATEN 2L-2910 Cat6) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to True 4K & 4K@35m (Cat 5e/6); 1080p@60m (Cat 5e/6) / 70m (Cat6a/ATEN 2L-2910 Cat6) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
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 DC Jack (Black) with locking	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	12.43W	
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	0.13kg (0.28 lb)	0.16kg (0.35 lb)
Dimensions (L x W x H)	11.86 x 7.19 x 1.68 cm (4.67 x 2.83 x 0.66 in.)	11.86 x 7.19 x 1.68 cm (4.67 x 2.83 x 0.66 in.)

Product information is subject to change without prior notice.

Features

- HDMI 2.0a (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 HDR
- 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