

VE1843

True 4K HDMI / USB HDBaseT 3.0 Transceiver





The Latest in Signal Convergence, The Next Level in True 4K Performance



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**True 4K HDMI / USB
HDBaseT 3.0 Transceiver**



As ATEN's first video transceiver, the VE1843 features the latest HDBaseT 3.0 technology, allowing users to easily configure the unit to be a transmitter or receiver depending on the AV solution they need, while enabling uncompressed True 4K HDMI transmission up to 100m/328ft with zero latency via just one Cat 6A U/FTP cable. With its user-oriented hardware design and enhanced durability, this new model is purpose-built for spaces that require long-distance, yet high-quality, signal transmission with easy installation and non-stop operation, such as conference rooms, auditoriums, banquet halls, and museums.

* Cat 6A U/FTP is the recommended setting. The skewless nature and inter-pair shielding of FTP provides the better near-end crosstalk (NEXT, source end) and far-end crosstalk (FEXT, receiver end) parameters required to achieve the maximum performance and distance.



Uncompressed True 4K



HDBaseT 3.0



Up to 100m Transmission over a Cat 6A U/FTP



Multiple Control Signals (AV, RS-232, IR, USB, Ethernet)



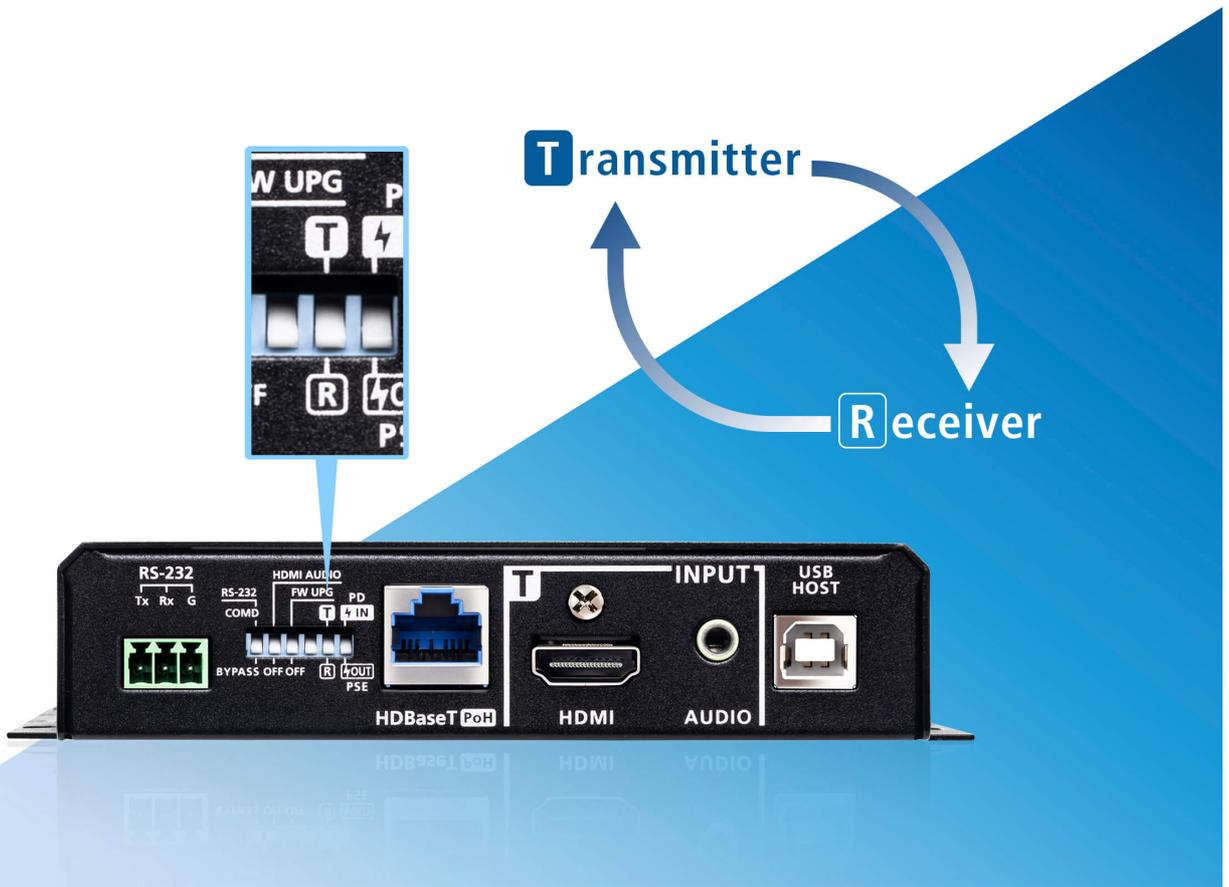
Audio Embedding & De-embedding



Improved Heat Dissipation



Easy Installation



One Unit, Two Configurations

VE1843 integrates the functions of a transmitter and a receiver into one unit for users to easily set it to the direction (Tx / Rx) required and enjoy more flexible deployment with [video matrix](#) switches, splitters, and more.

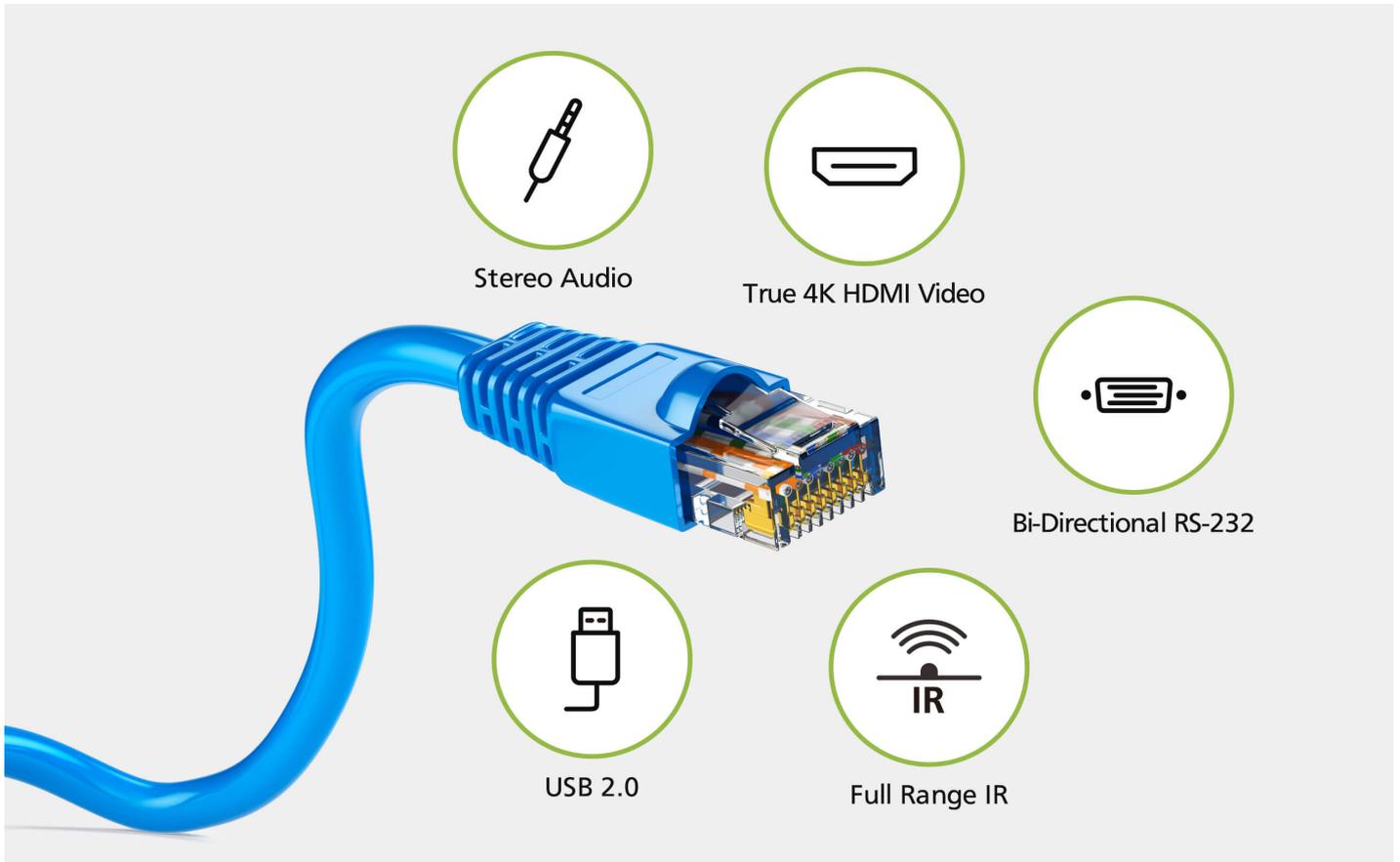
Uncompressed True 4K HDMI with HDR @100m

Delivering uncompressed True 4K @ 60Hz 4:4:4 HDMI with HDR up to 100m/328ft over a Cat 6A U/FTP cable with no latency, VE1843 offers superior video quality even when output devices are located far away.



One Cable to Transmit It All

Streamline complex installation and enjoy multi-signal control by using a Cat 6A U/FTP cable to extend signals including high-quality video, audio, IR, RS-232, Gigabit Ethernet, and USB 2.0 for remotely located equipment management.



Contact Us

Get a quote for this product or get in touch with our sales experts

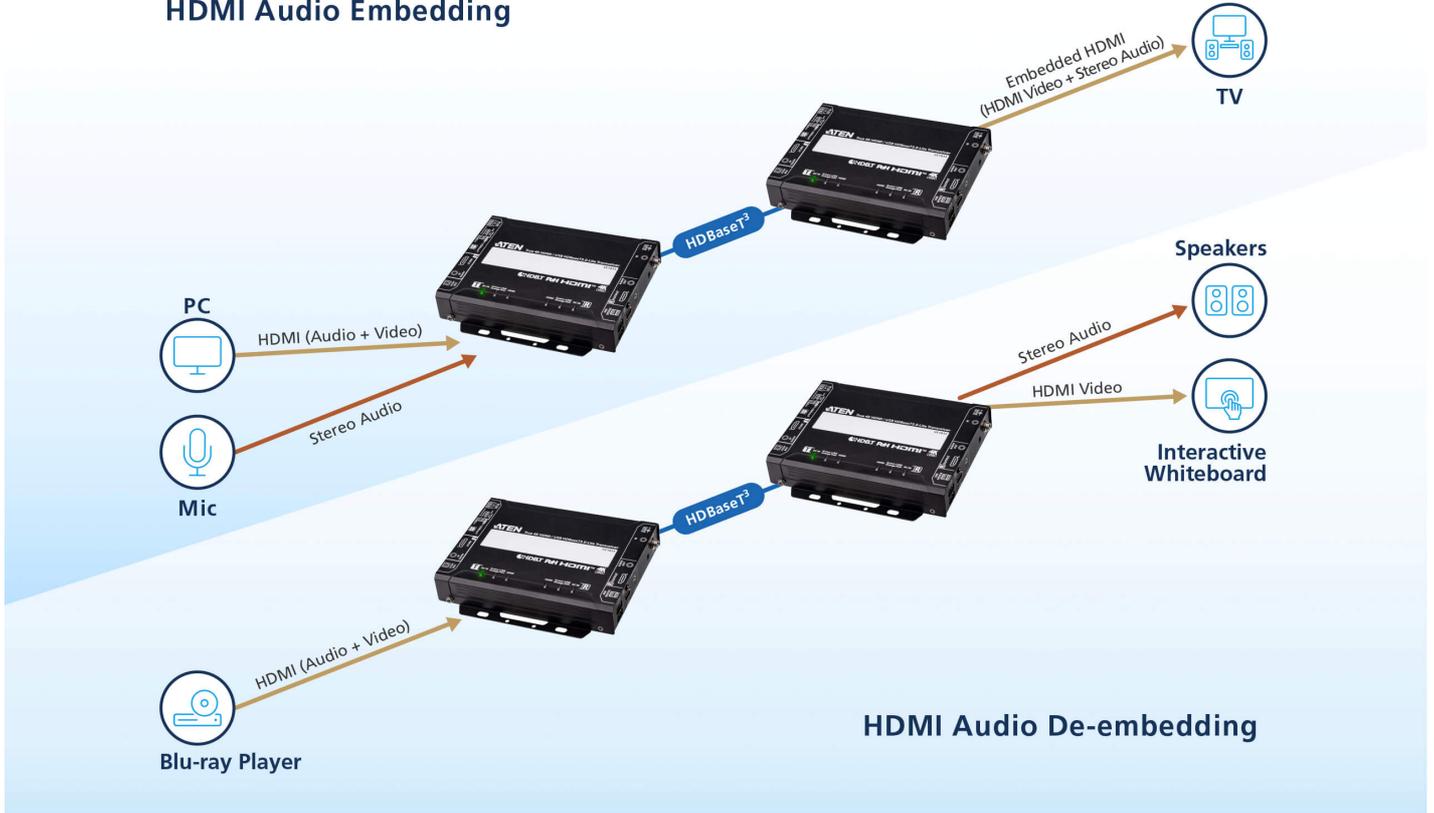
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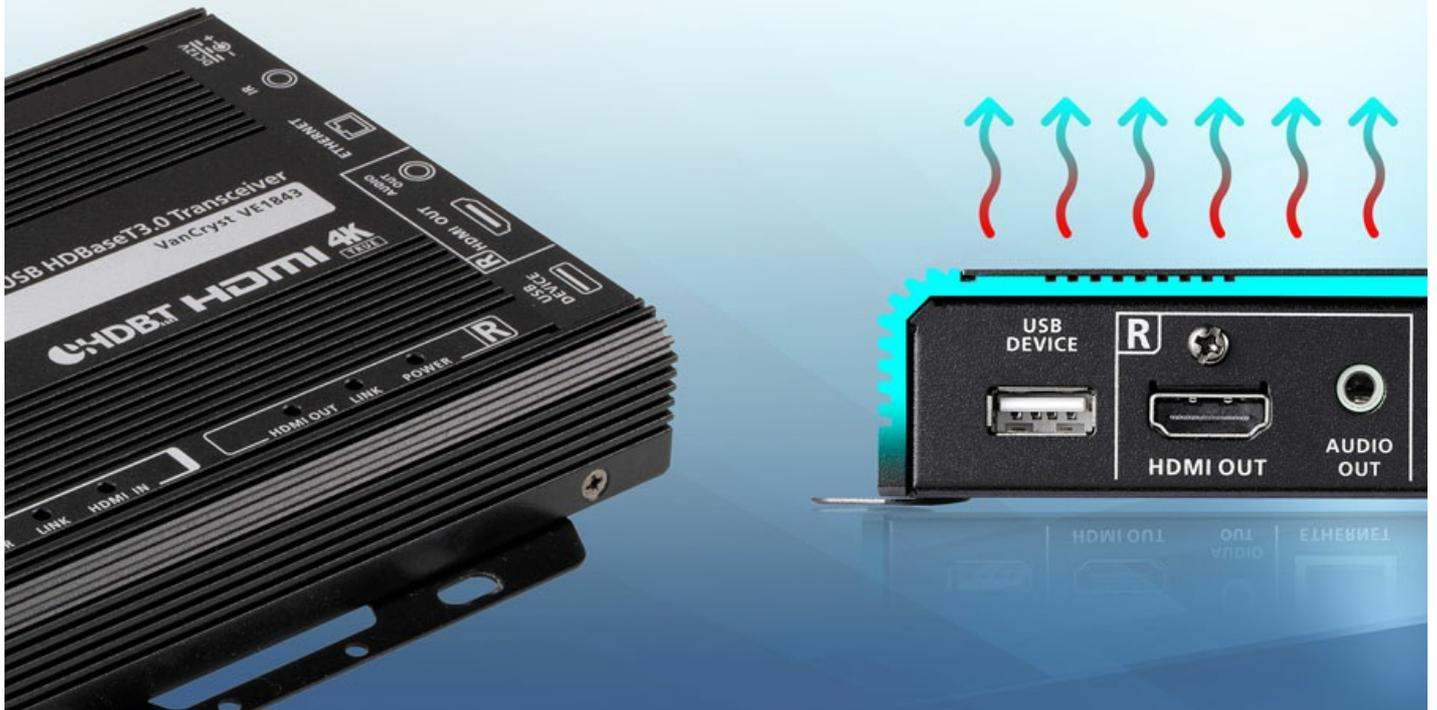
HDMI Audio Embedding & De-embedding

VE1843 comes with HDMI audio embedding / de-embedding functions, enabling users to easily embed a separate audio source to video content for applications such as training and education, or de-embed an audio signal from HDMI input source and output to an amplifier or speaker for enhanced sound quality.

HDMI Audio Embedding



HDMI Audio De-embedding

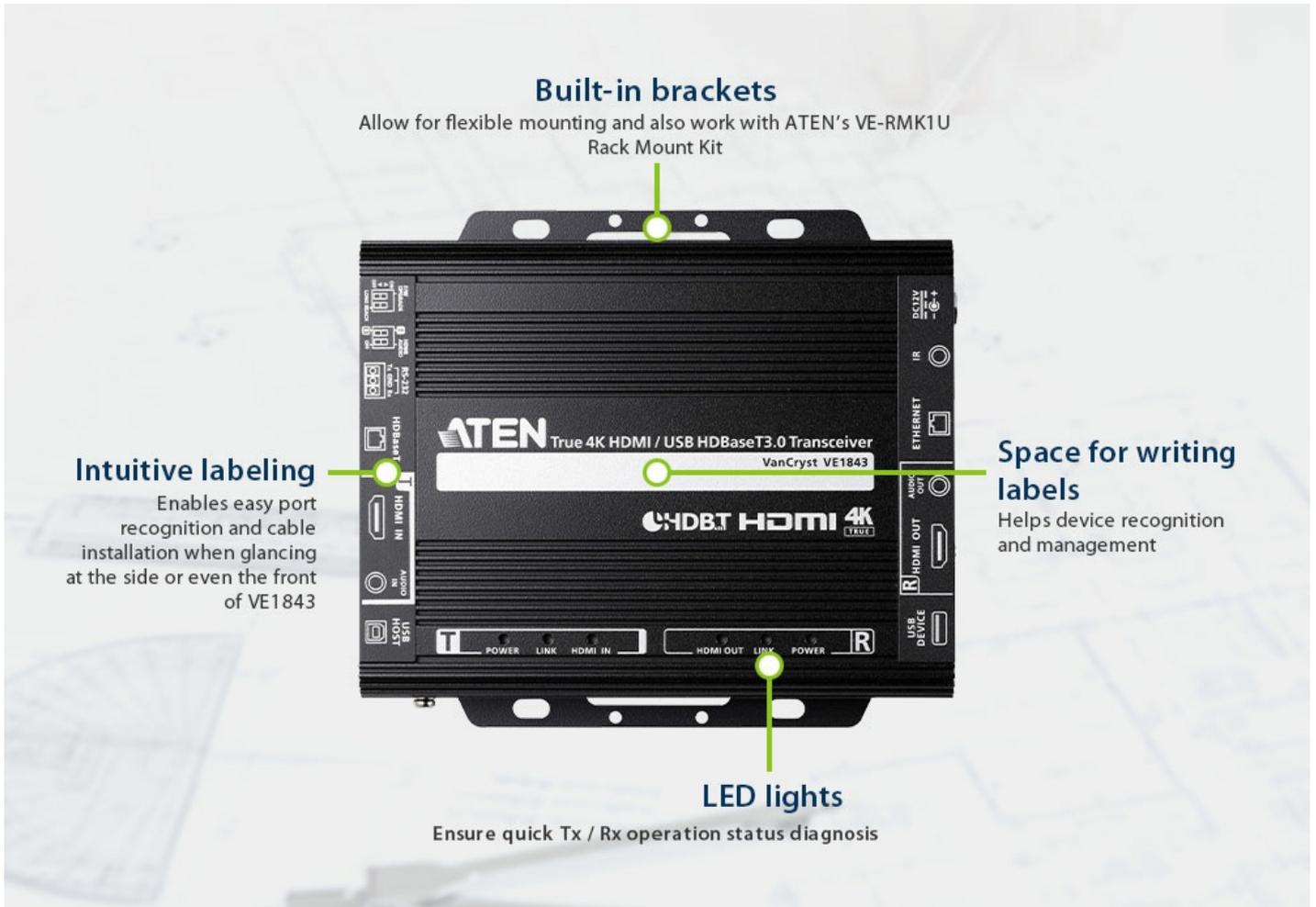


Tailored Fanless Fin Heat Sink Enclosure

VE1843 prevents overheating and fan malfunctions, which will shut down operation, ensuring efficient thermal dissipation and non-stop signal transmission, while improving durability.

User-Focused Design in Every Detail

The design of VE1843 elevates its ease-of-use, including the self-explanatory labeling for intuitive port recognition, the built-in brackets for easy mounting, the LED lights for quick diagnosis, and a dedicated space on the front for writing labels to help device recognition / management.



Applications

VE1843 is ideal for small / mid-sized video presentation in conference rooms, public areas, and other applications where high-quality signal transmission across up to 100m/328ft is needed.

Public Area



Conference Room



Banquet Hall



Exhibition Room



Product Comparison

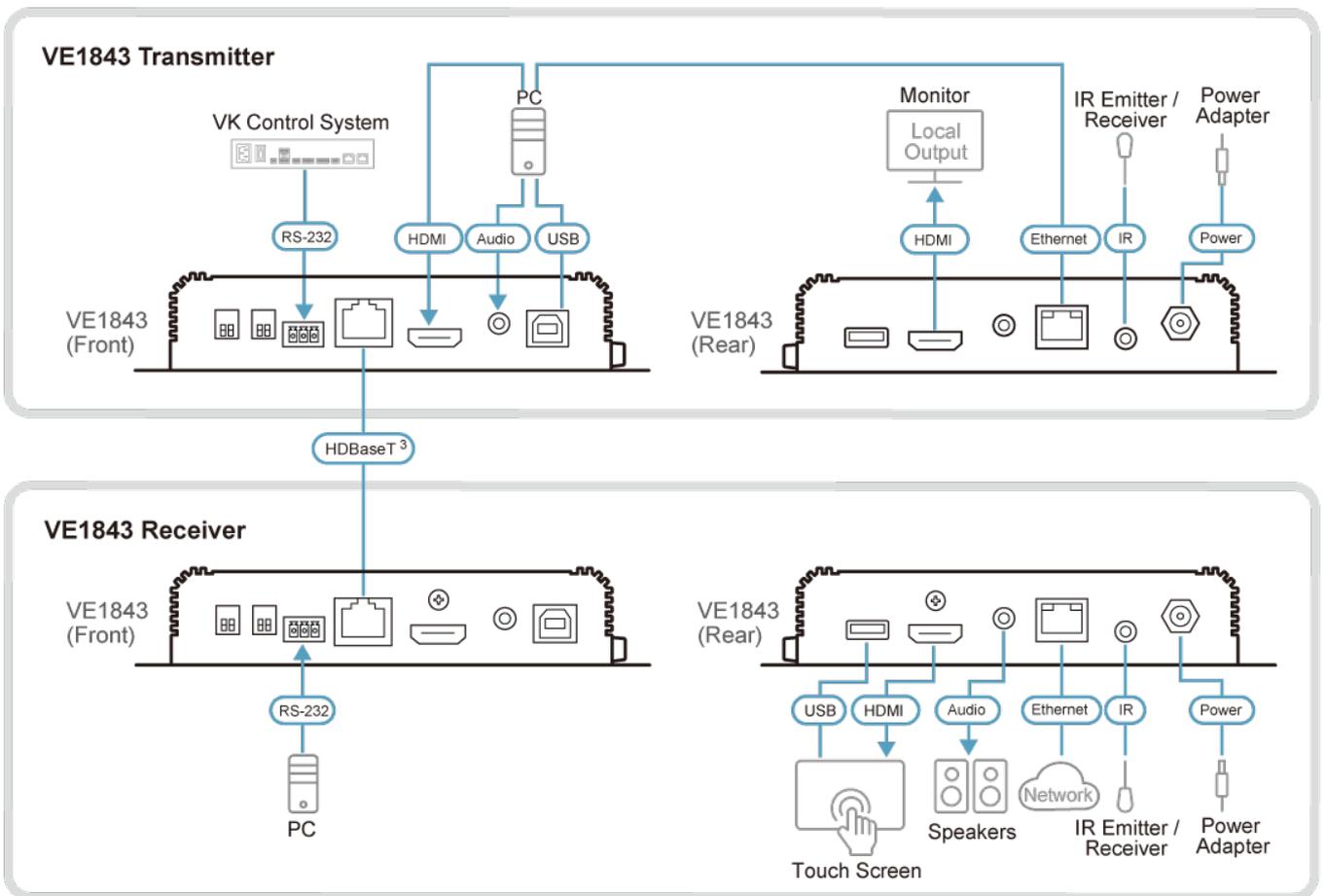
Talk to Our Experts

If you prefer to have ATEN contact you, please complete the form and a representative will be in touch with you shortly

Max. Distance	5 m
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	5 m
Video	
Max. Data Rate	18Gbps (6Gbps per lane)
Max. Pixel Clock	600 MHz
Compliance	HDMI (3D, Deep Color, 4K/60Hz); 4K HDR HDCP2.2/2.3 Compatible Consumer Electronics Control (CEC)* *The CEC signals are only bypassed from the transmitter unit to the receiver unit and do not support local output.
Max. Resolution	4096 x 2160 @ 60Hz (4:4:4) 3840 x 2160 @ 60Hz (4:4:4)
Max. Resolutions / Distance	Up to 4K x 2K @ 60Hz (4:4:4) @100m (HDBaseT3 Certified Cat 6a U/FTP cable / ATEN's tailor-made HDBaseT cable) Up to 1080P@150m @Long reach mode (Cat 6/ 6a or above cable)
Audio	
Input	1 x HDMI Type A Female (Black) 1 x Stereo Audio (mini stereo Jack female , Green)
Output	1 x HDMI Type A Female (Black) 1 x Stereo Audio (mini stereo Jack female , Green)
Connectors	
Unit To Unit	1 x RJ-45 Female
Power	1 x DC Jack (Black) with locking
Control	
RS-232 Channel	Connector: 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control
IR Channel	1 x Mini Stereo Jack Female, (Bi-directional, Black) 30K ~56KHz full range transmission
Ethernet Channel	1 x GbE (RJ45 Female)
USB Channel	1 x USB2.0 Type B Female (White, Host) 1 x USB2.0 Type A Female (White, Device) Transmission data bandwidth: Up to 300Mbps
Power Consumption	DC12V:6.45W:40BTU/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.
Switches	
Selection	1 x Slide Switch - TX (Be a Transmitter) / RX (Be a Receiver) selection
Mode Selection	1 x Slide Switch - HDMI Audio embed or De-embed ON/OFF selection
Firmware Upgrade	1 x Slide Switch - ON/OFF
Long Reach Mode Switch	1 x Slide Switch - ON/OFF
LEDs	
Power	1 x TX (Transmitter, Green) 1 x RX (Receiver, Green) NOTE: The TX or RX LED lights to indicate which role the VE1843 is set to.

Link	1 x TX (Transmitter, Orange) 1 x RX (Receiver, Orange)
Video Output	1 x RX HDMI OUT (Receiver, Orange)
Video Input	1 x Tx HDMI IN (Transmitter, Orange)
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.64 kg (1.41 lb)
Dimensions (L x W x H)	17.15 x 15.09 x 3.00 cm (6.75 x 5.94 x 1.18 in.)
Note	For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.

Diagram





Simply Better Connections

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