

VE1833

True 4K HDMI / USB HDBaseT 3.0 - Lite Transceiver with PoH (True 4K@40 m)



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**True 4K HDMI / USB HDBaseT 3.0 -
Lite Transceiver with PoH**

TRUE 4K
UNCOMPRESSED



The VE1833 is a compact True 4K HDMI and USB HDBaseT 3.0 Lite transceiver that can function as either a transmitter or receiver, offering flexible deployment across diverse AV setups. Delivering uncompressed True 4K HDMI transmission up to 40 m via a single Cat 6a U/FTP cable with zero latency, it features a user-friendly design and PoH power redundancy for simple, reliable installation in spaces such as conference halls, auditoriums, and exhibition areas.

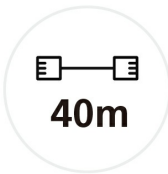
*Cat 6A U/FTP is the recommended setting. The skewless nature and inter-pair shielding of FTP provides the better near-end crosstalk (NEXT, source end) and far-end crosstalk (FEXT, receiver end) parameters required to achieve the maximum performance and distance.



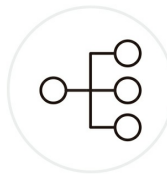
Uncompressed
True 4K



HDBaseT 3.0



Up to 40m
Transmission
over a
Cat 6A U/FTP



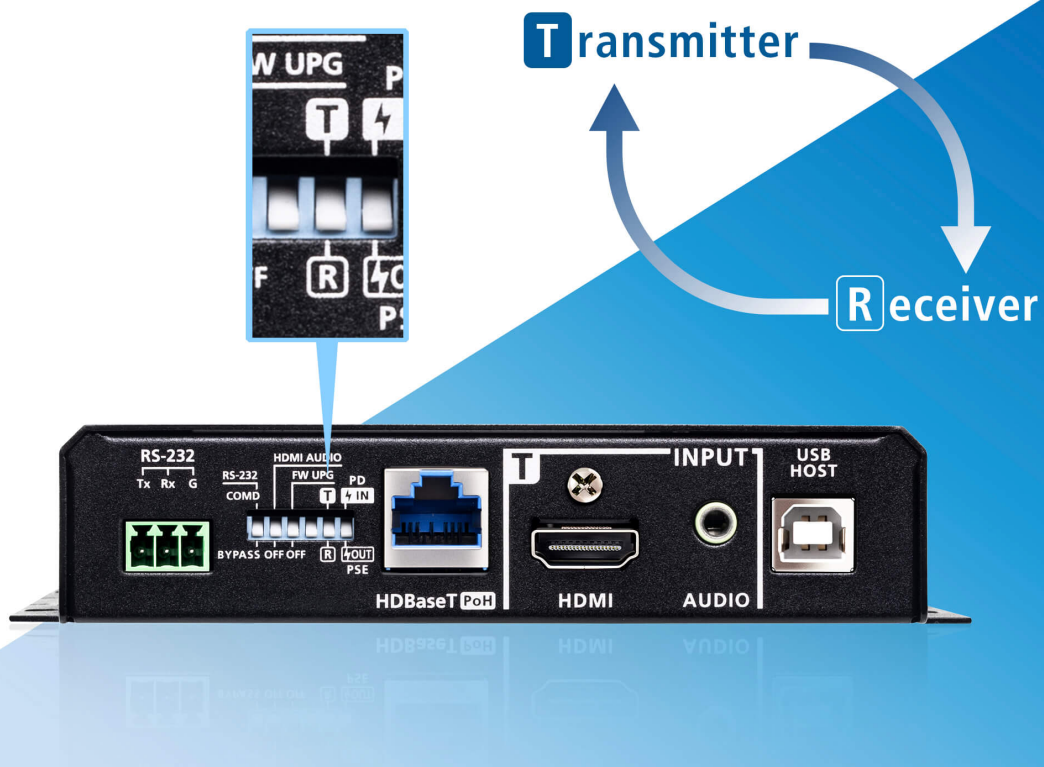
Multiple
Control Signals
(AV, RS-232,
IR, USB)



Audio Embedding
& De-embedding



Easy Installation



One Unit, Two Configurations

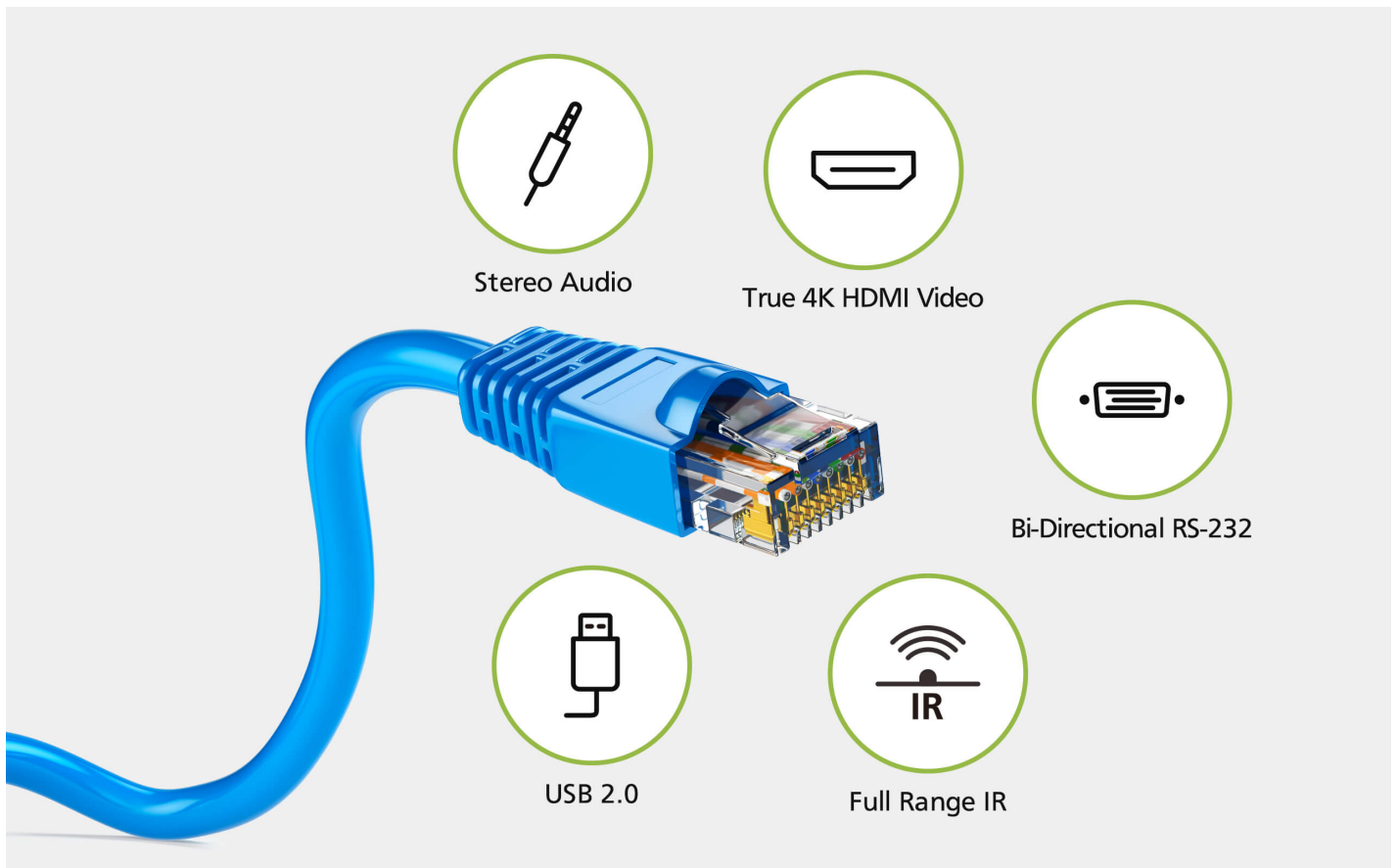
The VE1833 integrates the functions of a transmitter and a receiver into one unit for users to easily set it to the direction (Tx / Rx) required and enjoy more flexible deployment with video matrix switches, splitters, and more.

Uncompressed True 4K HDMI with HDR @40m

Delivering uncompressed True 4K @ 60Hz 4:4:4 HDMI with HDR up to 40m/131ft over a Cat 6A U/FTP cable with no latency, The VE1833 offers superior video quality even when output devices are located far away.

**One Cable to Transmit It All**

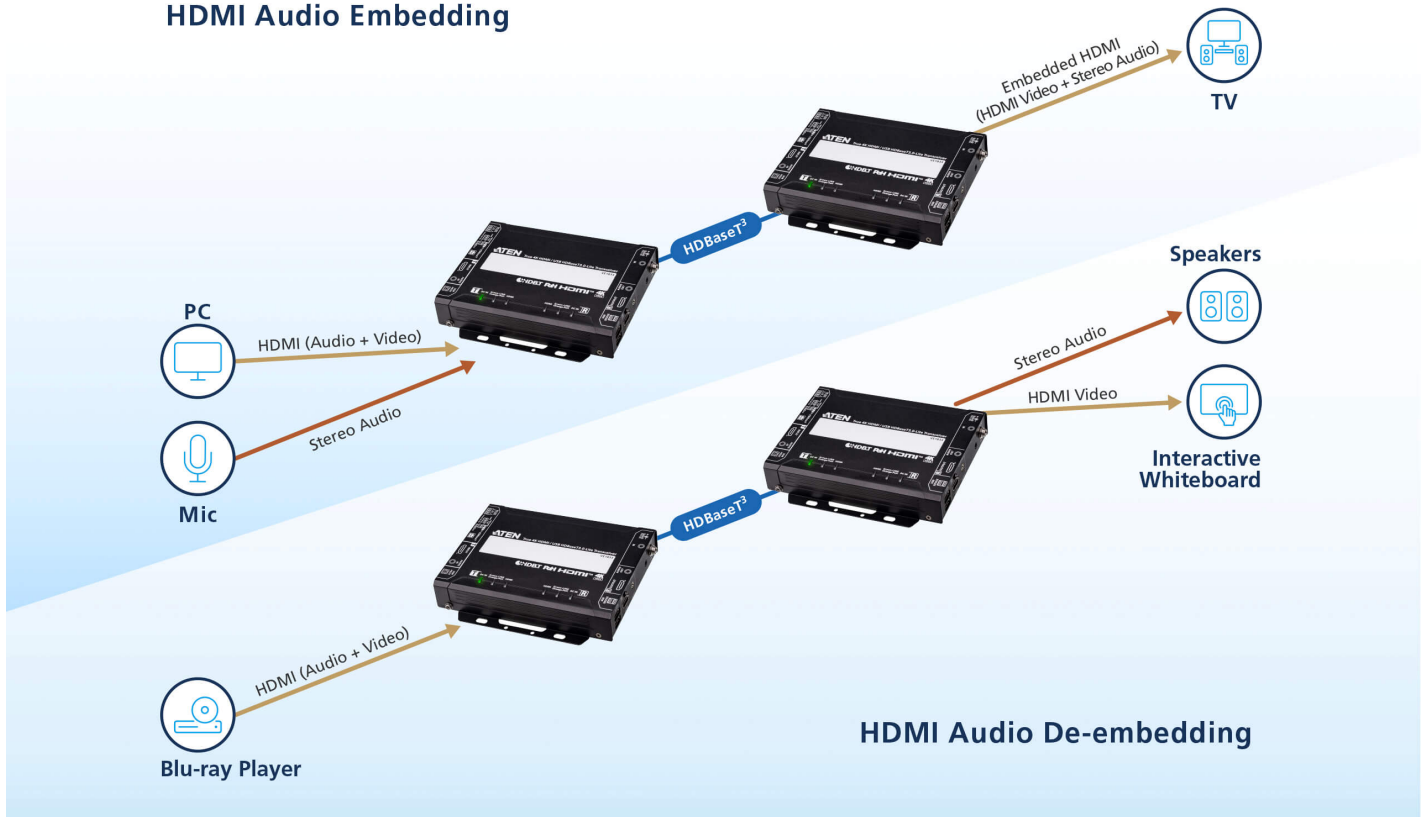
Streamline complex installation and enjoy multi-signal control by using a Cat 6A U/FTP cable to extend signals including high-quality video, audio, IR, RS-232, and USB 2.0 for remotely located equipment management.



HDMI Audio Embedding & De-embedding

The VE1833 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

User-Focused Design in Every Detail

The design of VE1833 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.

Built-in brackets

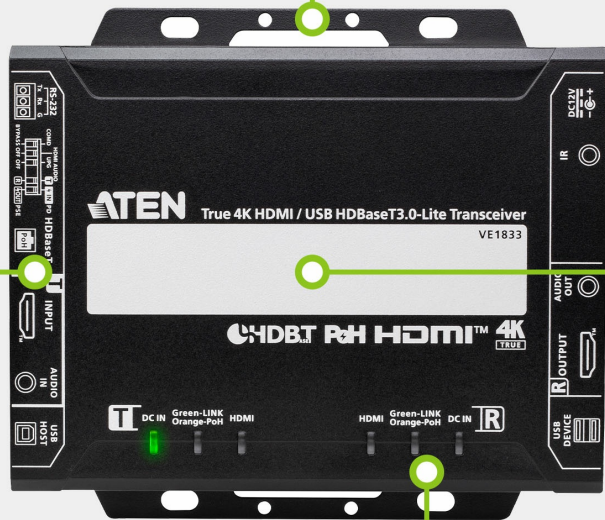
Allow for flexible mounting and also work with ATEN's VE-RMK1U Rack Mount Kit

Intuitive labeling

Enables easy port recognition and cable installation when glancing at the side or even the front of VE1833

Space for writing labels

Helps device recognition and management

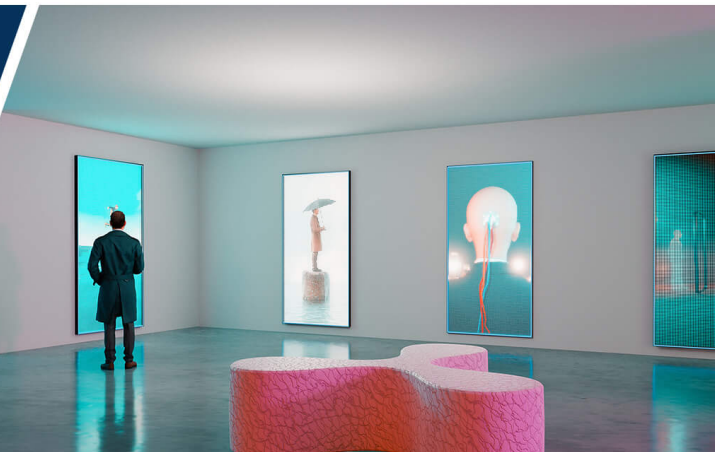


LED lights

Ensure quick Tx / Rx operation status diagnosis

Applications

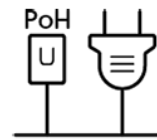
VE1833 is ideal for small / mid-sized video presentation in conference halls, auditorium, and other applications where high-quality signal transmission across up to 40m/131ft is needed.

Public Area**Conference Room****Banquet Hall****Exhibition Room**

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

First Name *	
Last Name *	
- Country *	
Company *	
Email *	
Phone Number *	
- Customer Type *	
Job Title *	



Features

The ATEN VE1833 True 4K HDMI / USB HDBaseT 3.0 - Lite Transceiver with PoH integrates both transmitter and receiver functions in one compact unit, allowing users to flexibly configure it through a DIP switch according to diverse AV setup. Leveraging HDBaseT 3.0 technology, the VE1833 delivers uncompressed True 4K HDMI signals over distances up to 40 m via a single Cat 6a cable (HDBaseT 3 Certified Cat 6a U/FTP / ATEN's tailor-made HDBaseT cable*).

Designed for professional AV environments, the VE1833 supports resolutions up to 4096 x 2160 @ 60Hz (4:4:4) and advanced video formats including HDR, HDR10+, and Dolby Vision, along with HDCP 2.2/3D, and Deep Color, ensuring superior video quality. The VE1833 features bi-directional PoH with power redundancy, ensuring continuous operation for critical missions.

The VE1833 extends not only HDMI video but also independent stereo audio, USB 2.0, IR, and bi-directional RS-232 signals all over a Cat 6a cable. It also provides HDMI audio embedding and de-embedding, making it easy to route audio separately when needed, and ideal for setups involving external speakers or audio processors. This all-in-one design streamlines complex installations and allows for seamless integration with video matrix switches, splitters, and more.

Empowered by its versatile feature set and flexible deployment options, the VE1833 is an ideal solution for conference halls, auditoriums, lecture theaters, museums, exhibition spaces, and any environment that demands high-performance AV transmission with simplified setup.

Note: Please refer to the Compatible Cables section on the product page.

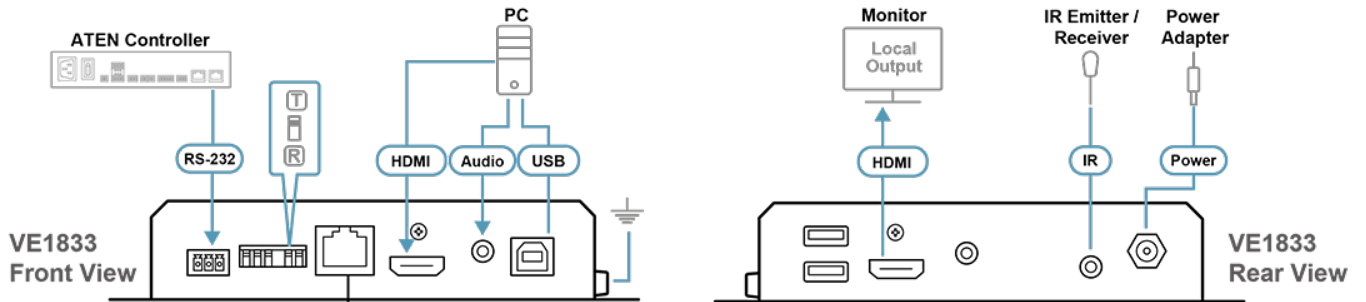
- Extends uncompressed True 4K HDMI signals up to 40 m over a single Cat 6a cable
- Compliant with HDBaseT 3.0 standards – transmits high-quality video, full range IR, bi-directional RS-232, independent stereo audio and USB 2.0 signals channel bypass
- Superior video quality – up to 4096 x 2160 @ 60 Hz (4:4:4); HDR, HDR+, Dolby Vision supported
- Supports HDMI audio embedding / de-embedding functions
- Bi-directional PoH with power redundancy for continuous operation
- Flexible for deployment – can be configured as a transmitter or receiver depending on the AV solution
- HDMI (3D, Deep Color, 4K/60Hz); HDCP2.2/2.3 compliant
- Supports HDMI local output
- Compliant with the USB 2.0 standard for a wide range of USB peripherals compatibility
- LED indication of HDBaseT and HDMI signal status for easier recognition
- Supports extremely high refresh rates up to 240Hz for the connected display
- Firmware upgradable
- Built-in 8KV / 15KV ESD protection
- Plug-and-play
- Rack-mountable

Specifications

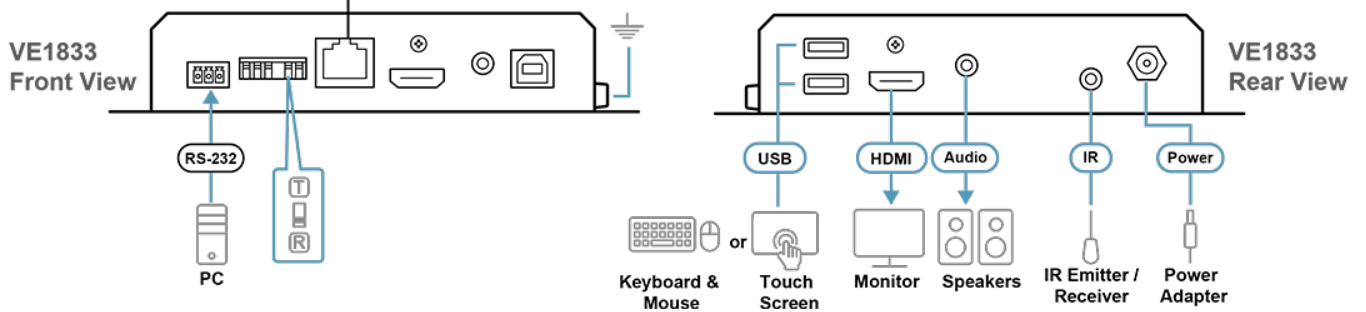
Input Resolutions	4096 x 2160p 24 / 25 / 30 / 50 / 60 Hz	1280 x 800 @ 60 Hz
	4096 x 2160p 50 / 60 Hz 4:2:0	1080p 24 / 25 / 30 / 50 / 60 Hz
	3840 x 2160p 24 / 25 / 30 / 50 / 60 Hz	1080i 50 / 60 Hz
	3840 x 2160p 50 / 60 Hz 4:2:0	1024 x 768 @ 60 / 70 / 75 Hz
	2560 x 1440 @ 144 Hz	800 x 600 @ 56 / 60 / 72 / 75 Hz
	1920 x 1200 @ 60 Hz / 60 Hz (Reduced Blanking)	720p 50 / 60 Hz
	1920 x 1080 @ 60 / 120 / 144 / 240 Hz	720 x 400 @ 70 Hz
	1680 x 1050 @ 60 Hz	640 x 480 @ 60 / 67 / 72 / 75 Hz
	1600 x 1200 @ 60 Hz	640 x 480 @ 60 Hz (4:3)
	1440 x 900 @ 60 Hz	576p 50 Hz (4:3 / 16:9)
	1400 x 1050 @ 60 Hz	480p 60 Hz (4:3 / 16:9)
	1280 x 1024 @ 60 / 75 Hz	

Diagram

VE1833 as Transmitter



VE1833 as Receiver


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