Simply Better Connections

VE1833

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

User Manual

Compliance Statements

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

The device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Warning

Operation of this equipment in a residential environment could cause radio interference.

Achtung

Der Gebrauch dieses Geräts in Wohnumgebung kann Funkstörungen verursachen.

Suggestion

Shielded twisted pair (STP) cables must be used with the unit to ensure compliance with FCC & CE standards.

KCC Statement

유선 제품용 / A 급 기기 (업무용 방송 통신 기기)
이 기기는 업무용 (A 급) 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며 , 가정 외의 지역에서 사용하는 것을 목적으로 합니다 .

Industry Canada Statement
This Class A digital apparatus complies with Canadian ICES-003.

CAN ICES-003 (A) / NMB-003 (A)

HDMI Trademark Statement
The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

RoHS
This product is RoHS compliant.

User Information

Online Registration

Be sure to register your product at our online support center:

International	http://eservice.aten.com

Telephone Support

For telephone support, call this number:

International	886-2-8692-6959
China	86-400-810-0-810
Japan	81-3-5615-5811
Korea	82-2-467-6789
North America	1-888-999-ATEN ext 4988 1-949-428-1111

User Notice

All information, documentation, and specifications contained in this manual are subject to change without prior notification by the manufacturer. The manufacturer makes no representations or warranties, either expressed or implied, with respect to the contents hereof and specifically disclaims any warranties as to merchantability or fitness for any particular purpose. Any of the manufacturer's software described in this manual is sold or licensed *as is*. Should the programs prove defective following their purchase, the buyer (and not the manufacturer, its distributor, or its dealer), assumes the entire cost of all necessary servicing, repair and any incidental or consequential damages resulting from any defect in the software.

The manufacturer of this system is not responsible for any radio and/or TV interference caused by unauthorized modifications to this device. It is the responsibility of the user to correct such interference.

The manufacturer is not responsible for any damage incurred in the operation of this system if the correct operational voltage setting was not selected prior to operation. PLEASE VERIFY THAT THE VOLTAGE SETTING IS CORRECT BEFORE USE.

Product Information

For information about all ATEN products and how they can help you connect without limits, visit ATEN on the Web or contact an ATEN Authorized Reseller. Visit ATEN on the Web for a list of locations and telephone numbers:

International	http://www.aten.com
North America	http://www.aten-usa.com

Package Contents

Check to make sure that all of the components are in working order. If you encounter any problem, please contact your dealer.

- 1 VE1833 True 4K HDMI / USB HDBaseT 3.0-Lite Transceiver with PoH
- 1 power adapter and power cord
- 1 RS-232 terminal block
- 1 user instructions

Table of Contents

Appendix

About this Manual

This user manual is provided to help you get the most from the VE1833 unit. It covers all aspects of installation, configuration, and operation. An overview of the information found in the manual is provided below.

Chapter 1, *Introduction*, introduces you to the VE1833 system. Its purpose, features, and installation considerations are described.

Chapter 2, *Hardware Setup*, describes the panel components of the VE1833 and detail steps to quickly and safely set up your installation.

Chapter 3, *Operation***,** explains how to use the Tx and Rx switch, and how to set up the input detection mode using the a pushbutton and RS-232 commands.

Appendix, provides a list of safety instructions and precautions, contact information for ATEN technical support, product specifications, and other technical information regarding the VE1833.

Note:

- Read this manual thoroughly and follow the installation and operation procedures carefully to prevent any damage to the unit or any connected devices.
- This product may be updated, with features and functions added, improved or removed since the release of this manual. For an up-to-date user manual, visit http://www.aten.com/global/en/

Conventions

This manual uses the following conventions:

`Monospaced`	Indicates text that you should key in.
[ ]	Indicates keys you should press. For example, [Enter] means to press the **Enter** key. If keys need to be chorded, they appear together in the same bracket with a plus sign between them: [Ctrl+Alt].
1.	Numbered lists represent procedures with sequential steps.
♦	Bullet lists provide information, but do not involve sequential steps.
>	Indicates selecting the option (on a menu or dialog box, for example), that comes next. For example, Start > Run means to open the *Start* menu, and then select *Run*.
	Indicates critical information.

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Chapter 1
Introduction

Overview

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*), with zero latency.

Designed for professional AV environments, the VE1833 supports resolutions up to 4096 × 2160 @ 60Hz (4:4:4) and advanced video formats including HDR, HDR10+, and Dolby Vision, along with HDCP 2.3, 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.

Features

- Extends uncompressed True 4K HDMI signals up to 40 m over a single Cat 6a cable with zero latency

Note:

1. ATEN recommends using a Cat 6a U/FTP cable. The skewless design and inter-pair shielding of FTP help reduce near-end crosstalk (NEXT, source end) and far-end crosstalk (FEXT, receiver end), which are essential for achieving maximum performance and distance.
2. For a list of compatible cables, refer to the Compatible Cables section on the product page.

- 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 × 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

Planning the Installation

Display

- Up to two HDMI displays capable of the highest required resolution

Source Device

- A source device with an HDMI port

Cables

- 2 HDMI cables
- To connect the VE1833 transmitter and receiver units, we recommend using cables of HDBaseT 3.0 Certified Cat 6a U/FTP cable to ensure video quality.

  Note: ATEN recommends using a Cat 6a U/FTP cable. The skewless design and inter-pair shielding of FTP help reduce near-end crosstalk (NEXT, source end) and far-end crosstalk (FEXT, receiver end), which are essential for achieving maximum performance and distance.

- For better video quality, we strongly suggest using ATEN's tailor-made HDBaseT cable with zero latency.

  Note: For a list of compatible cables, refer to the Compatible Cables section on the product page.

- The maximum transmission distance varies at different parts of the transmission:

Connection	Interface	Resolution	Distance
Computer to the VE1833 Transmitter	HDMI	True 4K	5 m
The VE1833 Transmitter to a VE1833 Receiver (R) or a compatible ATEN HDBaseT Receiver	◆ HDBaseT 3.0 Certified Cat 6a U/FTP cable with zero latency ◆ ATEN's tailor-made HDBaseT cable	True 4K	40 m
VE1833 Receiver to a display	HDMI	True 4K	5 m

Note: To reduce interference and ensure stable, long-distance transmission, ATEN recommends using a 2A-245G Cat 6A RJ-45 connector for this setup.

Chapter 2
Hardware Setup

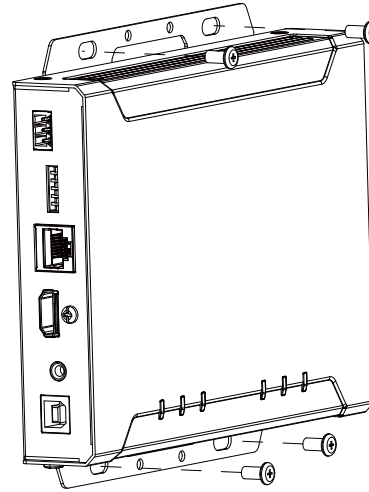
1. Please review the safety information regarding the placement of this device in *Safety Instructions*, page 21.
2. Do not power on the VE1833 until all the necessary hardware is connected.

Mounting the VE1833 Unit

You can mount the VE1833 to the wall or on a rack.

Wall Mounting

Secure or hang the VE1833 unit to the wall using the built-in mounting brackets.

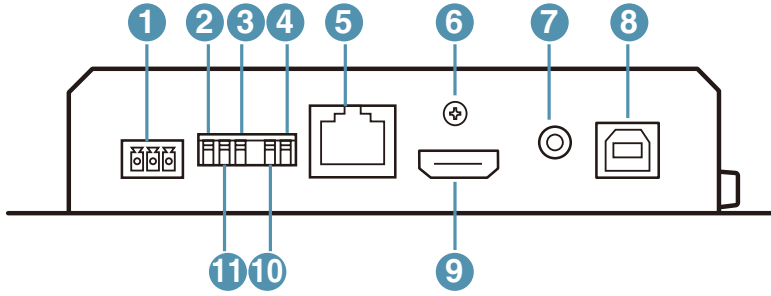


Rack Mounting

Use the VE-RMK 1U Rack Mount Kit to rack mount the VE1833. For more information about this accessory, go to www.aten.com/products

Hardware Overview

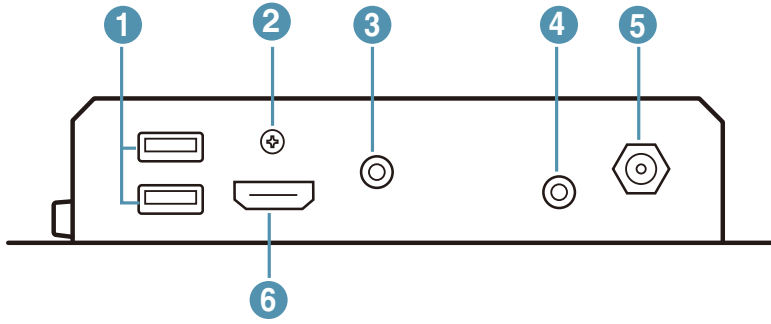
VE1833 Front View



No.	Component	Description
1	RS-232 port	Connects to an RS-232 serial controller, such as a PC or a control system.
2	RS-232 mode switch	Selects whether RS-232 operates in bypass mode or command mode.
3	firmware upgrade switch	This switch is reserved for ATEN Technical Support. If you would like to do a firmware upgrade yourself, please contact your dealer.
4	PoH PD/PSE switch	Configures the unit as either a powered device (PD) or PoE power sourcing equipment (PSE) based on the Ethernet connection.
5	HDBaseT port	Connects to an HDBaseT 3.0 Certified Cat 6a cable with zero latency to transmit HDMI and control signals to the connected receiver if the unit is set to a transmitter.
6	cable lock screw for ATEN LockPro™ (HDMI cable lock)	Universal HDMI cable lock that provides the easiest way to secure an HDMI cable to most HDMI devices.
7	audio in	Connects to an audio source device, such as a PC.
8	USB Type-B port	Connects to source device, such as a PC.

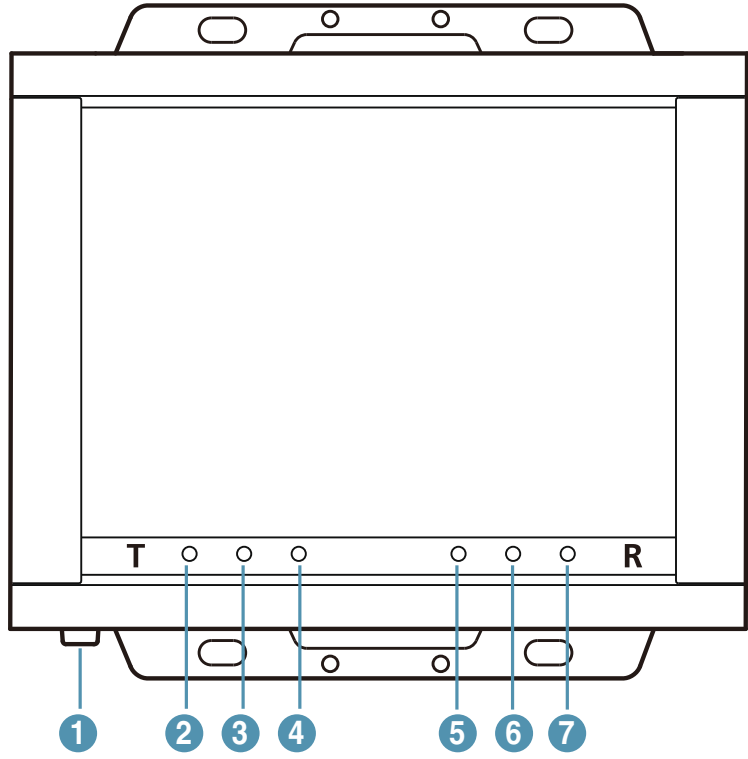
No.	Component	Description
9	HDMI in	Connects to an HDMI video source device using an HDMI cable.
10	Tx / Rx switch	Sets to define the unit as a transmitter or a receiver.
11	HDMI audio switch	Sets to enable the embed and de-embed functions. See *Tx and Rx Switch*, page 17.

VE1833 Rear View



No.	Component	Description
1	USB Type-A port	Connects to a peripheral device, such as a keyboard or mouse.
2	cable lock screw for ATEN LockPro™ (HDMI cable lock)	Universal HDMI cable lock that provides the easiest way to secure an HDMI cable to most HDMI devices.
3	audio out	Connects to an audio output device, such as a set of speakers.
4	IR port	Connects to an IR emitter or IR receiver for remotely control using an IR remote control.
5	power jack	Connects to a power adapter for power supply.
6	HDMI out	Connects to an HDMI display device using an HDMI cable.

VE1833 Top View



No.	Component	Description	
1	grounding terminal	Grounds the unit to a suitable grounded object.	
Transmitter LEDs			
2	DC-in power LED	Green, solid	The unit is powered by an external DC power source.

No.	Component	Description	
3	PoH / link LED	orange, solid	◆ The unit is powered by PoH. ◆ The transmission between the transmitter and receiver is stable.
		yellow-green, solid	◆ The unit is powered by an external DC power source. PoH is inactive. ◆ The transmission between the transmitter and receiver is stable.
		orange, blink	◆ The unit is powered by PoH. ◆ The transmission between the transmitter and receiver is unstable.
		yellow-green, blink	◆ The unit is powered by an external DC power source. PoH is inactive. ◆ The transmission between the transmitter and receiver is unstable.
		off	◆ PoH is inactive. ◆ There is no transmission between the transmitter and receiver.
4	HDMI in LED	orange, solid	The video signal is stable with the HDCP key.
		orange, blink	The video signal is stable without the HDCP key.
		off	There is no video signal.

No.	Component	Description	
Receiver LEDs			
5	HDMI out LED	orange, solid	The video signal is stable with the HDCP key.
		orange, blink	The video signal is stable without the HDCP key.
		off	There is no video signal.
6	PoH / link LED	orange, solid	◆ The unit is powered by PoH. ◆ The transmission between the transmitter and receiver is stable.
		yellow-green, solid	◆ The unit is powered by an external DC power source. PoH is inactive. ◆ The transmission between the transmitter and receiver is stable.
		orange, blink	◆ The unit is powered by PoH. ◆ The transmission between the transmitter and receiver is unstable.
		yellow-green, blink	◆ The unit is powered by an external DC power source. PoH is inactive. ◆ The transmission between the transmitter and receiver is unstable.
		off	◆ PoH is inactive. ◆ There is no transmission between the transmitter and receiver.
7	DC-in power LED	Green, solid	The unit is powered by an external DC power source.

LED Indicator

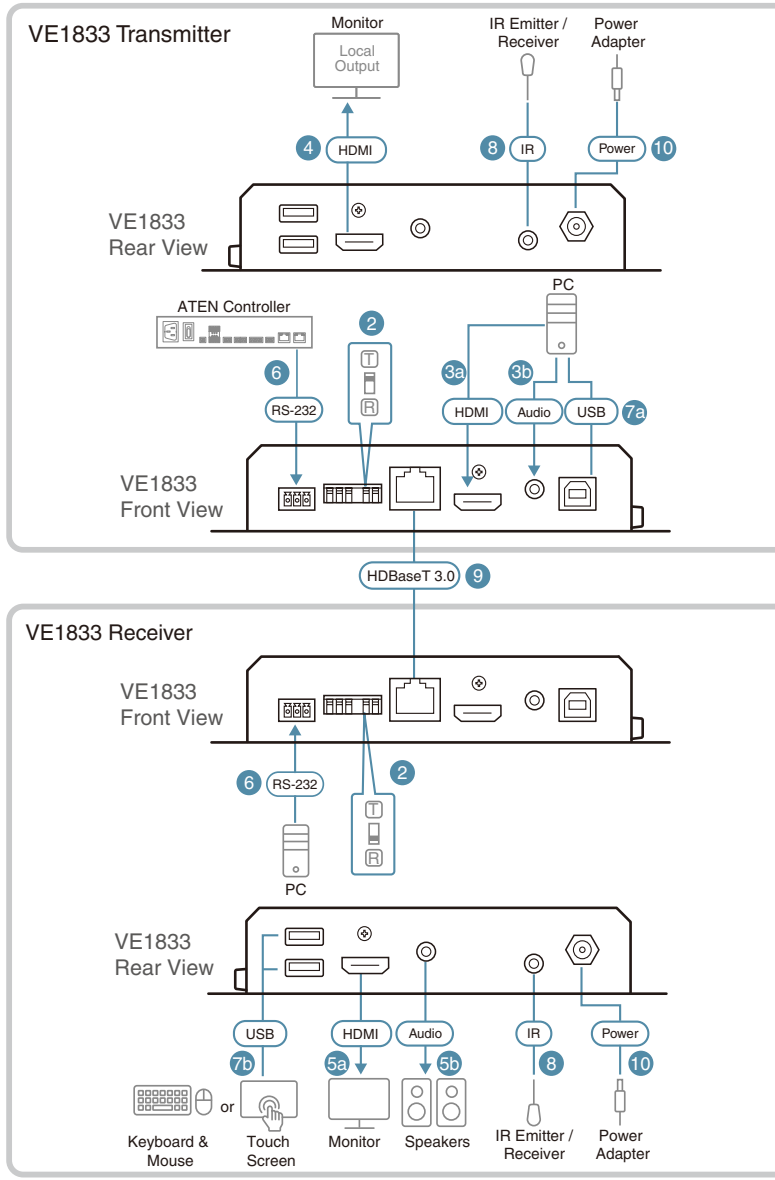
Once the unit is powered on, the Tx power LED—either the DC-in power LED or the PoH LED—lights up to indicate the unit is set as a transmitter, while the Rx power LED lights up to indicate the unit is set as a receiver.

If both the DC-in power LED and the PoH LED are lit, it means power redundancy is enabled.

LED Indicator	Status Description
TX power LED (DC-in / PoH LED)	Unit is in **transmitter** mode.
Rx power LED (DC-in / PoH LED)	Unit is in **receiver** mode.
DC-in power LED + PoH LED	**Power redundancy** is enabled.

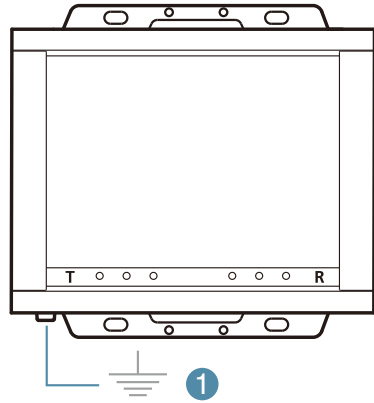
Installation

Follow the steps below to safely install the VE1833 to a source, a display device, and other devices as required.



Note: Make sure all the equipment you are connecting to the unit is turned off and disconnected from the power source.

1. Ground the VE1833 by connecting one end of a grounding wire to the grounding terminal and the other end to a suitable grounded object.



Note: Do not omit this step. Proper grounding helps to prevent damage to the unit from power surges or static electricity.

2. Use the Tx/Rx switch to set the unit's mode.
3. To use the unit as a transmitter:
   a) Connect your video source device to the HDMI input port using an HDMI cable.
   b) (Optional) Connect your audio source device to the audio input port using an appropriate audio cable. To embed this audio input to the HDMI output, set the HDMI audio switch (on Tx) to **ON**.
4. Connect an HDMI-enabled display device to the transmitter using an HDMI cable.
5. To use the unit as a receiver:
   a) Connect your video display device to the HDMI output port using an HDMI cable.
   b) (Optional) Connect your audio output device to the audio output port using an appropriate audio cable. To de-embed this HDMI audio from the HDMI output, set the HDMI audio switch (on Rx) to **ON**.

6. (Optional) To remotely control a PC through serial controller, connect the RS-232 port of the transmitter to a serial controller, and then connect the RS-232 port of the receiver to a PC, and vice versa.
7. Optional) To connect a USB host and USB devices:
   a) Connect a USB host (e.g. PC) to the transmitter's USB Type-B port.
   b) Connect USB peripherals such as keyboard and mouse to the receiver's USB Type-A ports.
8. (Optional) To remotely control a device connected to the receiver, for example, a TV, connect an IR emitter to the IR port of the receiver, and the IR receiver to the IR port of the transmitter, and vice versa.

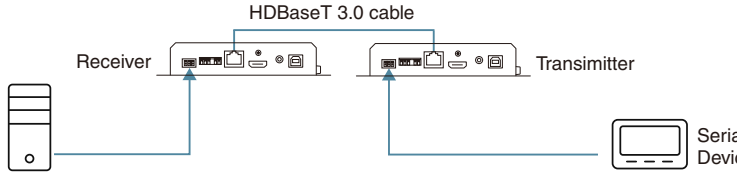
Note: The unit supports bi-directional IR transmission.

9. Connect the HDBaseT ports of the transmitter and receiver with an HDBaseT 3.0 certificated Cat 6A cable or an ATEN's tailor-made HDBaseT cable (see product page for more details).
10. Connect the supplied power adapter to the unit's power jack after powering on all other connected equipment.

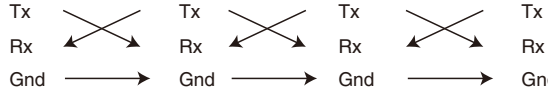
Note: To enable power redundancy, set the unit as a power sourcing equipment (PSE) using the PoH PD/PSE switch, and connect the unit with the supplied power adapter.

RS-232 Channel Transmission

You can manage the connected devices via RS-232 serial devices, such as computers or bar code scanners. The RS-232 signal transmission flow can be illustrated as follows:



PIN CONFIGURATION (Captive screw connectors)

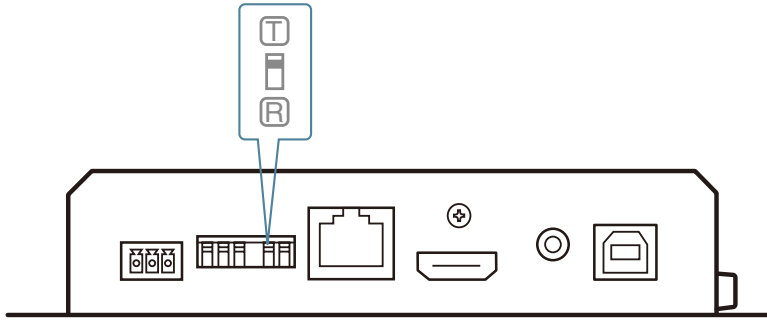


The general concept here is that a RS-232 signal can be transmitted (Tx) to the receiving (Rx) end of a unit. The received signal can then be transmitted (Tx) to the receiving (Rx) end of another unit. The RS-232 signals can be transmitted back the other way.

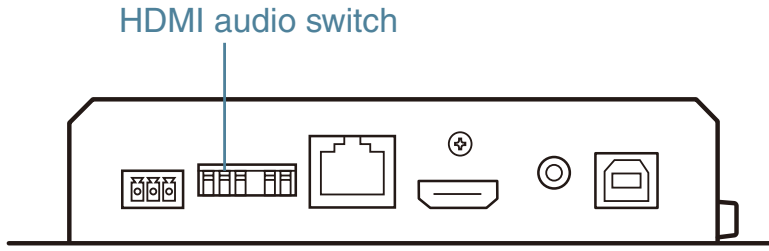
Chapter 3
Operation

Tx and Rx Switch

Use the Tx / Rx switch to set the unit as a transmitter or receiver as needed.



HDMI Audio Switch



Tx / Rx Switch	HDMI Audio Switch	Mode	Function
Tx	On	Embed Mode	The transmitter embeds the stereo audio input with HDMI video input to the receiver.
	Off	Bypass Mode	The transmitter transmits both the stereo audio and HDMI audio inputs to the receiver.
Rx	On	De-embedded Mode	The transmitter sends both the HDMI audio and stereo audio to the receiver. The stereo audio can be separately extracted (de-embedded) for external output.
	Off	Bypass Mode	The receiver receives both the HDMI and stereo audio directly from the transmitter without processing.

Audio Embedding

To embed the audio signals, follow the steps below.

1. Set the HDMI audio switch on the VE1833 transmitter to **On**.
2. Set the HDMI audio switch on the VE1833 receiver to **Off**.

Audio De-embedding

To de-embed the audio signals, follow the steps below.

1. Set the HDMI audio switch on the VE1833 transmitter to **Off**.
2. Set the HDMI audio switch on the VE1833 receiver to **On**.

Bypassing Audio Signals

To bypass the audio signals, follow the steps below.

1. Set the HDMI audio switch on the VE1833 transmitter to **Off**.
2. Set the HDMI audio switch on the VE1833 receiver to **Off**.

Note: By default, the HDMI audio switch on the VE1833 is set to **Off**.

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Appendix

Safety Instructions

General

- This product is for indoor use only.
- Read all of these instructions. Save them for future reference.
- Follow all warnings and instructions marked on the device.
- Do not place the device on any unstable surface (cart, stand, table, etc.). If the device falls, serious damage will result.
- Do not use the device near water.
- Do not place the device near, or over, radiators or heat registers.
- The device cabinet is provided with slots and openings to allow for adequate ventilation. To ensure reliable operation, and to protect against overheating, these openings must never be blocked or covered.
- The device should never be placed on a soft surface (bed, sofa, rug, etc.) as this will block its ventilation openings. Likewise, the device should not be placed in a built in enclosure unless adequate ventilation has been provided.
- Never spill liquid of any kind on the device.
- Unplug the device from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
- The device should be operated from the type of power source indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
- To prevent damage to your installation it is important that all devices are properly grounded.
- Do not allow anything to rest on the power cord or cables. Route the power cord and cables so that they cannot be stepped on or tripped over.
- Position system cables and power cables carefully; Be sure that nothing rests on any cables.
- Never push objects of any kind into or through cabinet slots. They may touch dangerous voltage points or short out parts resulting in a risk of fire or electrical shock.

- Do not attempt to service the device yourself. Refer all servicing to qualified service personnel.
- If the following conditions occur, unplug the device from the wall outlet and bring it to qualified service personnel for repair.
  - The power cord or plug has become damaged or frayed.
  - Liquid has been spilled into the device.
  - The device has been exposed to rain or water.
  - The device has been dropped, or the cabinet has been damaged.
  - The device exhibits a distinct change in performance, indicating a need for service.
  - The device does not operate normally when the operating instructions are followed.
- Only adjust those controls that are covered in the operating instructions. Improper adjustment of other controls may result in damage that will require extensive work by a qualified technician to repair.

Technical Support

International

- For online technical support – including troubleshooting, documentation, and software updates: http://support.aten.com
- For telephone support, see *Telephone Support*, page iv.

North America

Email Support		support@aten-usa.com
Online Technical Support	Troubleshooting Documentation Software Updates	http://www.aten-usa.com/support
Telephone Support		1-888-999-ATEN ext 4988

When you contact us, please have the following information ready beforehand:

- Product model number, serial number, and date of purchase
- Your computer configuration, including operating system, revision level, expansion cards, and software
- Any error messages displayed at the time the error occurred
- The sequence of operations that led up to the error
- Any other information you feel may be of help

Specifications

Function	VE1833
Video Input	
Interfaces	1 × HDMI Type-A, female (black)
Impedance	100 Ω
Max. Distance	5 m
Video Output	
Interfaces	1 × HDMI Type-A, female (black)
Impedance	100 Ω
Max. Distance	5 m
Video	
Max. Data Rate	18 Gbps (6 Gbps per lane)
Max. Pixel Clock	600 MHz
Compliance	HDMI (3D, Deep Color, 4K / 60Hz); 4K HDR HDCP 2.2/2.3 Compatible Consumer Electronics Control (CEC) **Note:** The CEC signals are only bypassed from the transmitter unit to the receiver unit and do not support local output.
Max. Resolutions	4096 × 2160 @ 60Hz (4:4:4) 3840 × 2160 @ 60Hz (4:4:4)
Max. Resolutions / Distances	Up to 4K × 2K @ 60Hz (4:4:4) @ 40 m (HDBaseT 3.0 Certified Cat 6a U/FTP cable / ATEN's tailor-made HDBaseT cable) **Note:** For a list of compatible cables, refer to the Compatible Cables section on the product page.
Audio	
Input	1 × HDMI Type-A, female (black) 1 × Stereo Audio (mini stereo jack, female, green)
Output	1 × HDMI Type-A, female (black) 1 × Stereo Audio (mini stereo jack, female, green)
Connectors	
Unit to Unit	1 × RJ-45, female (HDBaseT)
Power	1 × DC jack, black, with locking 1 × RJ-45, female (PoH PD and PSE supported)

Function	VE1833
Control	
RS-232 Channel	Connector: 1 × 3-pole terminal block Baud rate: 19200 Data bits: 8 Stop bits: 1; no parity, no flow control
IR Channel	1 × mini stereo jack, female (bi-directional, black) 30 kHz–56 kHz full-range transmission
USB Channel	1× USB 2.0 Type-B, female (white, host) 2× USB 2.0 Type-A, female (white, device) Transmission data bandwidth: up to 300 Mbps
Power Consumption	DC 12V, 6.01 W DC 12V, 7.09W **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 × slide switch – T (be a transmitter) / R (be a receiver) selection
Mode Selection	1 × slide switch – HDMI audio embed or de-embed ON/OFF selection 1 × slide switch – PoH PD or PSE selection 1 × slide switch – RS-232 Command or Bypass mode selection
Firmware Upgrade	1 × slide switch – ON / OFF
LEDs	
Power	Tx: 1 × DC-in power input (green), 1 × PoH power supplied (orange) Rx: 1 × DC-in power input (green), 1 × PoH power supplied (orange) **Note:** The Tx or Rx LED lights up to indicate which role the VE1833 is set to by DC Power or PoH.
Link	1 × Tx link status LED (transmitter, yellow-green) 1 × Rx link status LED (receiver, yellow-green)
Video Output	1 × Rx HDMI OUT status LED (receiver, orange)
Video Input	1 × Tx HDMI IN status LED (transmitter, orange)
Environmental	
Operating Temperature	0–40°C
Storage Temperature	-20–60°C
Humidity	0 × 80% RH, non-condensing

Function	VE1833	
Physical Properties		
Housing	Metal	
Weight	0.64 kg (1.41 lb)	
Dimensions (L x W x H) with bracket	16.94 × 14.69 × 3.00 cm	
Dimensions (L x W x H) without bracket	16.60 × 12.49 × 2.90 cm	
Input Resolutions	4096 × 2160p 24 / 25 / 30 / 50 / 60Hz	1280 × 800 @ 60Hz
	4096 × 2160p 50 / 60Hz 4:2:0	1080p 24 / 25 / 30 / 50 / 60Hz
	3840 × 2160p 24 / 25 / 30 / 50 / 60Hz	1080i 50 / 60Hz
	3840 × 2160p 50 / 60Hz 4:2:0	1024 × 768 @ 60 / 70 / 75Hz
	2560 × 1440 @ 144Hz	800 × 600 @ 56 / 60 / 72 / 75Hz
	1920 × 1200 @ 60Hz / 60Hz (Reduced Blanking)	720p 50 / 60Hz
	1920 × 1080 @ 60 / 120 / 144 / 240Hz	720 × 400 @ 70Hz
	1680 × 1050 @ 60Hz	640 × 480 @ 60 / 67 / 72 / 75Hz
	1600 × 1200 @ 60Hz	640 × 480 @ 60Hz (4:3)
	1440 × 900 @ 60Hz	576p 50Hz (4:3 / 16:9)
	1400 × 1050 @ 60Hz	480p 60Hz (4:3 / 16:9)
	1280 × 1024 @ 60 / 75Hz	

ATEN Warranty Policy

The warranty policy may vary by product category and region of purchase. For details, please visit ATEN's official website, select your purchase counties/ regions and then go to the Support Center, or contact your local ATEN sales representative for further assistance.

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