



Simply Better Connections

ATEN VanCryst™

**VE1843**

True 4K HDMI / USB  
HDBaseT 3.0 Transceiver  
User Manual

## Compliance Statements

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### 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.

## About this Manual

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This user manual is provided to help you get the most from the VE1843 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 VE1843 system. Its purpose, features, and installation considerations are described.

**Chapter 2, *Hardware Setup***, describes the panel components of the VE1843 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 VE1843.


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### Note:

- ◆ Read this manual thoroughly and follow the installation and operation procedures carefully to prevent any damage to the unit or any connected devices.
  - ◆ ATEN regularly updates its product documentation for new features and fixes. For an up-to-date VE1843 documentation, 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.

## Package Contents

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- ◆ 1 VE1843 True 4K HDMI / USB HDBaseT 3.0 Transceiver
- ◆ 1 RS-232 terminal block
- ◆ 1 foot pad set (4 pcs)
- ◆ 1 USB Type-B to USB Type-A cable
- ◆ 1 power adapter
- ◆ 1 IR emitter
- ◆ 1 IR receiver
- ◆ 1 user instructions

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### Note:

- ◆ Make sure that all of the items are present and in good order. If anything is missing or was damaged in shipping, please contact your dealer for further assistance.
  - ◆ Features may have been added to the VE1843 since this manual was published. Please visit our website to download the most up-to-date version of the manual.
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## Product Information

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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	<a href="http://www.aten.com">http://www.aten.com</a>
North America	<a href="http://www.aten-usa.com">http://www.aten-usa.com</a>

## User Information

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### Online Registration

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

International	<a href="http://eservice.aten.com">http://eservice.aten.com</a>
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### 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.



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# Chapter 1

## Introduction

### Overview

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The VE1843 is ATEN's first video transceiver and integrates the functions of a transmitter and a receiver into one unit. This combination allows users to easily configure the unit to be a transmitter or receiver depending on their AV solution, and to enjoy more flexible deployment and effective use with video matrix switches, video splitters, etc.

Designed with HDBaseT 3.0 technology, the VE1843 not only extends True 4K uncompressed signals up to 100 m over a single Cat 6a cable (HDBaseT<sup>3</sup> Certified Cat 6a cable) with zero latency, but also transmits IR, RS-232, Ethernet, independent audio, and USB signals with the latest HDBaseT standards. For stable HDMI signal transmission, the VE1843 ensures high-quality visuals and reliable extension by supporting HDCP 2.2, 3D, Deep Color, and HDR. In addition, the VE1843 is equipped with HDMI audio embedded / de-embedded functions, enabling users to flexibly adapt suitable audio / video combinations based on different environments. To ensure non-stop operations, the fanless fin heat sink design prevents overheating and thus elevates its reliability.

Empowered by the above benefits, the VE1843 increases the potential of AV applications while also streamlining complex installations. This makes the VE1843 an ideal solution for conference halls, auditoriums, lecture halls, museums, exhibition rooms, and anywhere else that requires high-quality transmission and easy-to-use application.

## Features

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- ◆ Extends uncompressed True 4K HDMI signals up to 100 m over a single Cat 6a cable (HDBaseT<sup>3</sup> Certified Cat 6a cable) with zero latency
- ◆ Flexible for deployment — can be configured as a transmitter or receiver depending on the AV solution
- ◆ Compliant with HDBaseT 3.0 standards — transmits high-quality video, full range IR, bi-directional RS-232, Gigabit Ethernet, independent stereo audio and USB 2.0 signals channel bypass
- ◆ HDMI (3D, Deep Color, 4K/60Hz); HDCP 2.2 compliant
- ◆ Superior video quality — up to 4096 x 2160 @ 60 Hz (4:4:4); HDR supported
- ◆ Supports HDMI audio embedding / de-embedding functions
- ◆ 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
- ◆ Fanless fin heat sink enclosure — elevates durability and reliability by preventing overheating, fan malfunctions, and noises
- ◆ Firmware upgradable
- ◆ Built-in 8KV / 15KV ESD protection
- ◆ Plug-and-play
- ◆ Rack-mountable

## Planning the Installation

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### 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 VE1843 transmitter and receiver units, we recommend using cables of HDBaseT<sup>3</sup> Certified Cat 6a cable to ensure video quality.
- ◆ For better video quality, we strongly suggest using ATEN 2L-2920 Cat 6a cable (HDBaseT<sup>3</sup> Certified Cat 6a cable) with zero latency.

### Considerations

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

Connection	Interface	Resolution	Distance
Computer to the VE1843 Transmitter	HDMI	True 4K	5 m
The VE1843 Transmitter to a VE1843 Receiver (R) or a compatible ATEN HDBaseT Receiver	HDBaseT <sup>3</sup> Certified Cat 6a cable) with zero latency	True 4K	100 m*
VE1843 Receiver to a display	HDMI	True 4K	5 m

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**Note:** The maximum transmission distance for True 4K resolution using an ATEN 2L-2920 Cat 6a cable (HDBaseT<sup>3</sup> Certified Cat 6a cable) with zero latency is 100 m. This cable is currently unavailable for purchase and will be sold separately in the future.

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# Chapter 2

## Hardware Setup



1. Please review the safety information regarding the placement of this device in *Safety Instructions*, page 15.
2. Do not power on the VE1843 until all the necessary hardware is connected.

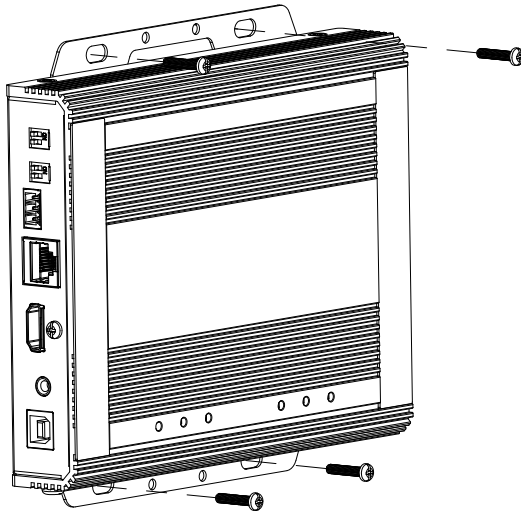
### **Mounting the VE1843 Unit**

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You can mount the VE1843 to the wall or on a rack.

#### **Wall Mounting**

Secure or hang the VE1843 unit to the wall using the built-in mounting brackets.

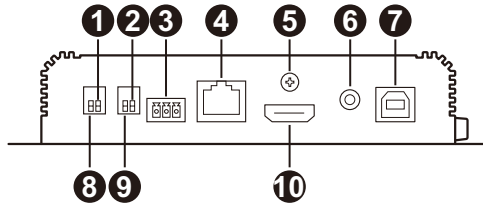


#### **Rack Mounting**

Use the VE-RMK 1U Rack Mount Kit to rack mount the VE1843. For more information about this accessory, go to [www.aten.com/products](http://www.aten.com/products)

## Hardware Overview

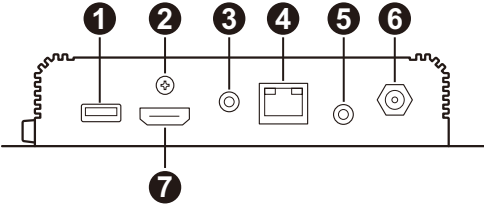
### VE1843 Front View



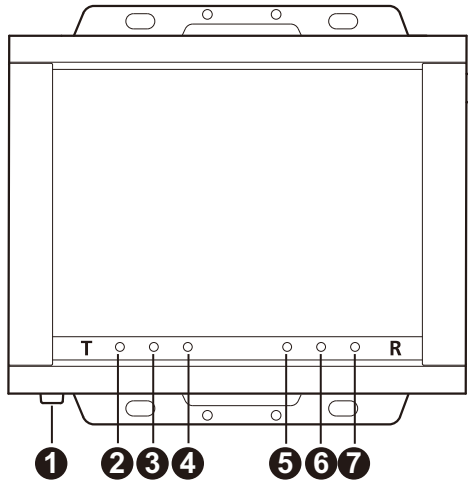
No.	Component	Description
1	HDBaseT long reach mode switch (reserved)	Sets to enable the long reach mode. This switch is currently reserved for future expansion.
2	HDMI audio switch	Sets to enable the embed and de-embed functions. See <i>Tx and Rx Switch</i> , page 13.
3	RS-232 Port	Connects to an RS-232 serial controller, such as a PC or a control system.
4	HDBaseT port	Connects to an HDBaseT <sup>3</sup> 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.
5	cable lock screw for ATEN LockPro™	Universal HDMI cable lock that provides the easiest way to secure an HDMI cable to most HDMI devices.
6	audio in	Connects to an audio source device, such as a PC.
7	USB Type-B port	Connects to source device, such as a PC.
8	firmware upgrade switch (reserved)	This switch is reserved for ATEN Technical Support. If you would like to do a firmware upgrade yourself, please contact your dealer.
9	Tx / Rx switch	Sets to define the unit as a transmitter or a receiver.
10	HDMI in	Connects to an HDMI video source device using an HDMI cable.



**VE1843 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™	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	Ethernet port	Connects to a network switch to provide Internet access for the connected source device using an RJ-45 cable.
5	IR port	Connects to an IR emitter or IR receiver for remotely control using an IR remote control.
6	power jack	Connects to a power adapter for power supply.
7	HDMI out	Connects to a HDMI display device using an HDMI cable.

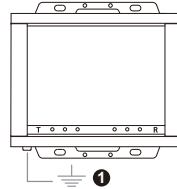
**VE1843 Top View**

No.	Component	Description
1	grounding terminal	Grounds the unit to a suitable grounded object.
<b>Transmitter LEDs</b>		
2	power LED	Lights green: The unit is receiving power. Off: The unit is powered off.
3	link LED	Lights orange: The transmission between the transmitter and receiver is stable. Blinks orange: The transmission between the transmitter and receiver is unstable. Off: There is no transmission between the transmitter and receiver.
4	HDMI in LED	Lights orange: The video display is normal with the HDCP key. Blinks orange: The video display is normal without the HDCP key. Off: There is no video signal.
<b>Receiver LEDs</b>		

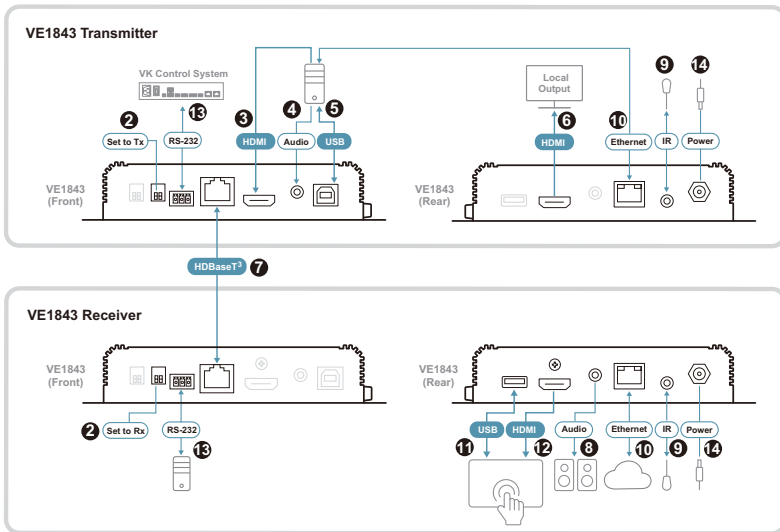
No.	Component	Description
5	HDMI out LED	Lights orange: The video display is normal with the HDCP key.
		Blinks orange: The video display is normal without the HDCP key.
		Off: There is no video signal.
6	link LED	Lights orange: The transmission between the transmitter and receiver is stable.
		Blinks orange: The transmission between the transmitter and receiver is unstable.
		Off: There is no transmission between the transmitter and receiver.
7	power LED	Lights green: The unit is receiving power.
		Off: The unit is powered off.

## Hardware Installation

Follow the steps below to safely install the VE1843 to a source, a display device, and other devices as required.



Note: The illustrated installation is based on two VE1843 units.



1. Ground the VE1843 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. **Important:** Before connecting the VE1843, please set the Tx / Rx switch to define the unit. The VE1843 will be a transmitter if the Tx / Rx switch is set to Tx, or the VE1843 will be a receiver if the Tx / Rx switch is set to Rx.

3. Connect an HDMI-enabled PC to the transmitter using an HDMI cable. You can connect other HDMI-enabled source device here (e.g., Blu-ray player).
4. (Optional) Connect an audio source device (e.g., PC) to the transmitter. To embed this audio input to the HDMI output, put the HDMI audio switch (on Tx) to **ON**.
5. Connect the USB Type-B port of the transmitter to a USB host (e.g., PC).
6. Connect an HDMI-enabled display device to the transmitter using an HDMI cable.
7. Connect the HDBaseT ports of the transmitter and receiver with a HDBaseT<sup>3</sup> Certified Cat 6a cable (or above).
8. (Optional) Connect your speakers or audio amplifier to the receiver. To embed this HDMI audio from the HDMI output, put the HDMI audio switch (on Rx) to **ON**.
9. (Optional) To remotely control a device connected to the receiver, for example, a TV, connect the IR emitter to the IR port of the receiver, and the IR receiver to the IR port of the transmitter, and vice versa.

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**Note:** The unit supports bi-directional IR transmission.

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10. (Optional) To provide network connectivity for your PC, connect the receiver to a network switch, and then connect the Ethernet port of the transmitter to your PC.

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**Note:** The unit supports bi-directional bypass transmission.

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11. (Optional) Connect the USB Type-A port to a USB peripheral.
12. Connect an HDMI-enabled display device to the receiver using an HDMI cable.
13. (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.

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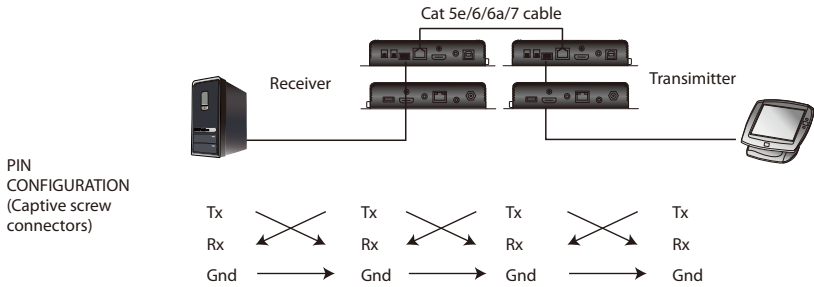
**Note:** The unit supports bi-directional bypass transmission.

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14. Connect the power cord and the power adapter, and then plug the power adapter cables into the power jack on the units.
15. Power on all connected devices.

## 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:



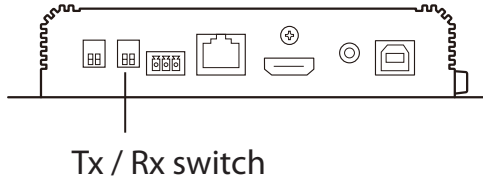
The general concept here is that a RS-232 signal can be transmitted (Tx) to the receiving (Rx) end of a unit. The received signal can then be transmitted (Tx) to the receiving (Rx) end of another unit. The RS-232 signals can be transmitted back the other way.

# Chapter 3 Operation

## **Tx and Rx Switch**

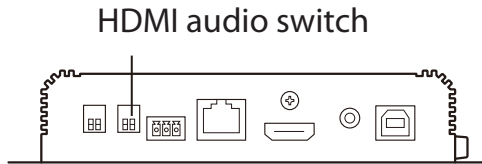
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Use the Tx / Rx switch to set the unit as a transmitter or receiver as needed.



## **HDMI Audio Switch**

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## **Audio Embedding**

To embed the audio signals, follow the steps below.

1. Set the HDMI audio switch on the VE1843 transmitter to **On**.
2. Set the HDMI audio switch on the VE1843 receiver to **Off**.

## **Audio De-embedding**

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

1. Set the HDMI audio switch on the VE1843 transmitter to **Off**.
2. Set the HDMI audio switch on the VE1843 receiver to **On**.

## **Bypassing Audio Signals**

To bypass the audio signals, follow the steps below.

1. Set the HDMI audio switch on the VE1843 transmitter to **Off**.
2. Set the HDMI audio switch on the VE1843 receiver to **Off**.

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**Note:** By default, the HDMI audio switch on the VE1843 is set to **Off**.

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## Safety Instructions

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### 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

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### International

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

### North America

Email Support		<a href="mailto:support@aten-usa.com">support@aten-usa.com</a>
Online Technical Support	Troubleshooting Documentation Software Updates	<a href="http://www.aten-usa.com/support">http://www.aten-usa.com/support</a>
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	VE1843
<b>Video Input</b>	
Interfaces	1 x HDMI Type-A Female (Black)
Impedance	100 $\Omega$
Max. Distance	5 m
<b>Video Output</b>	
Interfaces	1 x HDMI Type-A Female (Black)
Impedance	100 $\Omega$
Max. Distance	5 m
<b>Video</b>	
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 Compatible
Max. Resolutions	4096 x 2160 @ 60Hz (4:4:4) 3840 x 2160 @ 60Hz (4:4:4)
Max. Resolutions / Distances	Up to 4K x 2K @ 60Hz (4:4:4) @ 100 m (HDBaseT <sup>3</sup> Certified Cat 6a cable / ATEN 2L-2920 Cat 6a cable)
<b>Audio</b>	
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)
<b>Connectors</b>	
Unit to Unit	1 x RJ-45 Female
Power	1 x DC Jack with locking (Black)
<b>Control</b>	
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 (Black, Bi-directional ) 30K ~ 56KHz full range transmission
Ethernet Channel	1 x GbE RJ-45 Female

Function	VE1843
USB Channel	1 x USB Type-B Female (White, Host) 1 x USB Type-A Female (White, Device)
<b>Power Consumption</b>	DC12V:6.45W:40BTU
<b>Switches</b>	
Selection	1 x Slide Switch – Tx (Transmitter) / Rx (Receiver)
Mode Selection	1 x Slide Switch – HDMI Audio Embedding or De-embedding ON/OFF selection
Firmware Upgrade	1 x Slide Switch - ON/OFF
Long Reach Mode	1 x Slide Switch - ON/OFF (Reserved)
<b>LEDs</b>	
Power	1 x Tx (Green, Transmitter) 1 x Rx (Green, Receiver) <b>Note:</b> The Tx or Rx LED lights to indicate which role the VE1843 is set to.
Link	1 x Tx (Orange, Transmitter) 1 x Rx (Orange, Receiver)
Video Output	1 x Rx HDMI Out (Orange, Receiver)
Video Input	1 x Tx HDMI In (Orange, Transmitter)
<b>Environmental</b>	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 x 80% RH, Non-Condensing
<b>Physical Properties</b>	
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)

Function	VE1843
<b>Input Resolutions</b>	6460 x 480 @ 60/67/72/75 Hz
	720 x 400 @ 70 Hz
	800 x 600 @ 56/60/72/75 Hz
	1024 x 768 @ 60/70/75 Hz
	1280 x 800 @ 60 Hz
	1280 x 1024 @ 60/75 Hz
	1400 x 1050 @ 60 Hz
	1400 x 900 @ 60 Hz
	1600 x 1200 @ 60 Hz
	1680 x 1050 @ 60 Hz
	1920 x 1080/1200 @ 60 Hz
	1920 x 1200 @ 60 Hz (Reduced Blanking)
	1080p 60 Hz
	480p 60 Hz (4:3)/(16:9)
	720p 60 Hz
	1080i 60 Hz
	640 x 480 60 Hz (4:3)
	576p 50 Hz (4:3)/(16:9)
	720p 50 Hz
	1080i/1080p 50 Hz
	1080p 24/25/30 Hz
	3840 x 2160p 24/25/30/50/60 Hz
	4096 x 2160p 24/25/30/50/60 Hz
3840 x 2160p 50/60 Hz 4:2:0	
4096 x 2160p 50/60 Hz 4:2:0	

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## Limited Warranty

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ATEN warrants its hardware in the country of purchase against flaws in materials and workmanship for a Warranty Period of two [2] years (warranty period may vary in certain regions/countries) commencing on the date of original purchase. This warranty period includes the [LCD panel of ATEN LCD KVM switches](#). Select products are warranted for an additional year (see [A+ Warranty](#) for further details). Cables and accessories are not covered by the Standard Warranty.

### What is covered by the Limited Hardware Warranty

ATEN will provide a repair service, without charge, during the Warranty Period. If a product is defective, ATEN will, at its discretion, have the option to (1) repair said product with new or repaired components, or (2) replace the entire product with an identical product or with a similar product which fulfills the same function as the defective product. Replaced products assume the warranty of the original product for the remaining period or a period of 90 days, whichever is longer. When the products or components are replaced, the replacing articles shall become customer property and the replaced articles shall become the property of ATEN.

To learn more about our warranty policies, please visit our website:  
<http://www.aten.com/global/en/legal/policies/warranty-policy/>