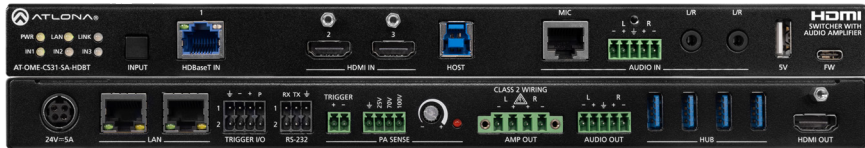ΛTLONΛ.
a **PANDUIT** company

AV Presentation and Collaboration System
AT-OME-CS31-SA-HDBT

The Atlona **AT-OME-CS31-SA-HDBT** is an AV presentation and collaboration system for classrooms and conference rooms. It features AV switching of remote and local sources, a mixer amplifier, and USB hub.

The switcher has one HDBaseT® input supporting extension of HDMI, Ethernet, power, control, and USB 2.0 data up to 330 feet (100 meters) as well as two HDMI® inputs. Sources connected to these inputs, such as laptops, computers, and document cameras, are routed to the HDMI output connected to a projector or display. The amplifier of the OME-CS31-SA-HDBT delivers either two channels of 25 watts or a single channel of 50 watts into 4 or 8 ohms. It features one balanced stereo audio input and two unbalanced stereo audio inputs with independent level control for each. A balanced stereo line level output allows the mixed signal to be passed to an assistive listening system or separate amplifier. The OME-CS31-SA-HDBT's USB system integrates a USB 2.0 host over HDBaseT with a local USB 3.0 host and connections for four peripheral devices such as cameras, speakerphones, interactive displays, keyboards, mice, or storage devices.
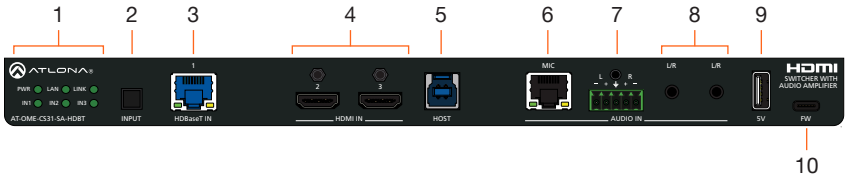
Package Contents

1 x AT-OME-CS31-SA-HDBT
1 x Envelope of mating connectors for all captive-screw connectors
1 x Surface mount brackets
4 x rubber feet
1 x 24 V / 5 A power supply
1 x AC cord
1 x Insert w/ QR code

⚠ **IMPORTANT**: Visit https://www.atlona.com/product/at-ome-cs31-sa-hdbt for the latest firmware updates and User Manual.

Front Panel Descriptions

1   LED Indicators
Displays the current state of the unit:
PWR - LED will be red while the unit is booting and green when operating normally.
LAN - LED will be green when connected to a switch or other LAN device.
LINK - LED will be green when connected to an HDBaseT transmitter.
IN1, **IN2**, **IN3** - LED will be green when set to the current input.

2   INPUT
Press and release this button to cycle between each of the available inputs.

3   HDBaseT IN
Connect a category cable from this port to a compatible HDBaseT transmitter or switcher.

4   HDMI IN
Connect an HDMI cable from each of these ports to an HDMI source.

5   HOST
Connect a USB cable from this port to the host USB device.

6   MIC
This port is for future use.

7   VOICE L/R
Connect the included 5-pin captive screw connector from this port to a balanced analog audio input.

8   L/R
Connect a music player, Bluetooth™ receiver, or other unbalanced stereo source to each of these 3.5 mm mini-stereo ports.

9   5V
Provides +5 V USB power. Can be used to attach Bluetooth™ audio adapters or powered USB hubs.

10   FW
This USB-C port is used to update the firmware. Refer to the User Manual for more information.

Rear Panel Descriptions

1 24V / 5A
Connect the included 24 V / 5 A power supply from this port to an available AC electrical outlet.

2 LAN
Connect an Ethernet cable from either of these ports to the LAN. The other LAN port can be used to connect an Ethernet cable to a display or other device.

3 TRIGGER I/O
Connect the included double-stack 4-pin connector to this port. This port consists of two separate ports: **TRIGGER I/O 1** (top) and **TRIGGER I/O 2** (bottom).

4 RS-232
Connect the included double-stack 3-pin captive screw connector to this port. This port consists of two separate ports: **RS-232 1** (top) and **RS-232 2** (bottom).

5 TRIGGER (PA SENSE)
Connect the included 2-pin captive screw connector to this port. Supports audio mute with contact closure or PA sense so announcements can be heard clearly.

6 GND/25V/75V/100V (PA SENSE)
Connect the included 4-pin captive screw connector from this port to a PA speaker system.

7 Potentiometer (PA SENSE)
Adjusts the trigger voltage sensitivity.

8 AMP OUT
Connect the included 4-pin captive screw connector from this port to a pair of program / stereo speakers. Supports 2 x 25 watts @ 4/8 ohms amplifier (stereo or dual mono) or 1 x 50 watts @ 4/8 ohms (bridged).

9 AUDIO OUT
Connect the included 5-pin captive screw connector from this port to an assistive listening device or additional amplifier.

10 HUB
Connect up to 4 USB devices to these ports.

11 HDMI OUT
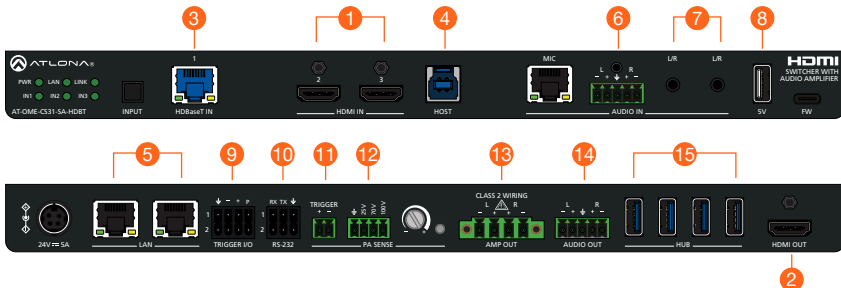Connect an HDMI cable from this port to a display.

Installation

1. Connect an HDMI cable from a source to these **HDMI IN** ports.

2. Connect an HDMI cable from the **HDMI OUT** port to a local display.

3. Connect a category cable from the **HDBaseT IN** port to a compatible HDBaseT transmitter or switcher. Refer to the table below for information on maximum cable length and supported resolutions.

> ⚠️ **IMPORTANT:** Stranded or patch cable is not recommended due to performance issues. Shielded cables are strongly recommended to minimize signal noise and interference.
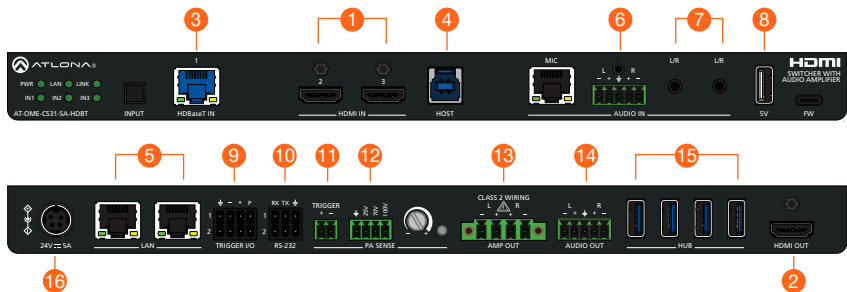
Cable	4K/UHD - Feet / Meters		1080p - Feet / Meters	
HDMI	15	5	30	10
CAT5e	295	90	330	100
CAT6/6a/7	330	100	330	100

4. Connect a USB cable from the **HOST** port to a computer.

5. Connect an Ethernet cable from one of the **LAN** port to the Local Area Network (LAN). This step will be required in order to access the built-in web server. Connect the other **LAN** port to a display or other Ethernet device.

6. Connect the included 5-pin captive screw connector from the **AUDIO IN** port to source with a balanced audio output. This port also has a chassis ground that is to be used if there is any noise in the balanced signal.

7. Connect a music player, Bluetooth™ receiver, or other unbalanced stereo source to each of these **L/R** 3.5 mm mini-stereo ports.

8. Connect a USB device that needs power to this port, such as a Bluetooth receiver, to the **5V** port.

9. Connect the included double-stacked 4-pin captive screw connector to this port. If only a single port is being used, then connect the included single 4-pin captive screw. Two **TRIGGER I/O** ports are provided: **TRIGGER I/O 1** and **TRIGGER I/O 2**. These ports can be used to control projection screens or other devices.

Installation (continued)

10. Connect the included double-stacked 3-pin captive screw connector to this port. If only a single port is being used, then connect the included single 3-pin captive screw. Two RS-232 ports are provided: **RS-232 1** and **RS-232 2**. These ports can be used for console and display control.

11. Connect the included 2-pin captive screw connector from the **TRIGGER (PA SENSE)** port to a fire alarm system or other contact-closure input.

12. Connect the included 4-pin captive screw connector from the **GND/25V/70V/100V** port to a PA speaker system. Make sure to connect the wires to the matching voltage of the PA system.

13. Connect the included 4-pin captive screw connector from the **AMP OUT** port to a pair of program / stereo speakers. Supports 2 x 25 watts @ 4/8 ohms amplifier (stereo or dual mono) or 1 x 50 watts @ 4/8 ohms (bridged).

14. Connect the included 5-pin captive screw connector from the **AUDIO OUT** port to an assistive listening device or additional amplifier.

15. Connect up to 4 USB devices to these **HUB** ports.

16. Connect the included power supply from the **24V/5A** port to an available AC electrical outlet.

Accessing the built-in Web Server

The AT-OME-CS31-SA-HDBT includes a built-in web server, which allows easy management and control of all features. Before using the web server, a password must be created.

1. Make sure that an Ethernet cable is connected between one of the **LAN** ports on the AT-OME-CS31-SA-HDBT and the network.
2. Launch a web browser and enter the IP address of the unit.
3. The **Login** page will be displayed.
4. Enter `Atlona` in the provided field.
5. Click the **Login** button.
6. The **Change Password** screen will be displayed.
7. Enter the desired password in the **Admin Password** field.
8. Click the **Save** button.

Warranty

To view the product warranty, use the following link or QR code:

https://atlona.com/warranty/.

English Declaration of Conformity

The English version can be found under the resources tab at:

https://atlona.com/product/at-ome-cs31-sa-hdbt/.

Chinese Declaration of Conformity 中国RoHS合格声明

由SKU列出於:

https://atlona.com/about-us/china-rohs/.

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HIGH-DEFINITION MULTIMEDIA INTERFACE

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