

AV Presentation and Collaboration System

AT-OME-CS31-SA



The Atlona **AT-OME-CS31-SA** is an AV presentation and collaboration system for classrooms and conference rooms. It features a 3x1 HDMI® switcher, 50 watt mixer amplifier, and USB 3.0 hub.

The HDMI switcher is HDCP 2.2 compliant and supports up to 4K/60 4:4:4 plus HDR formats for common inputs such as laptops, computers, and document cameras routed to the output connected to a projector or display. The OME-CS31-SA amplifier 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 includes USB 3.0 interfaces for two host computers, plus four peripheral devices such as a camera, speakerphone, interactive display, keyboard, mouse, or storage device.

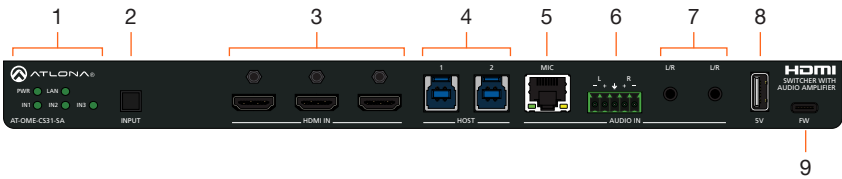
Package Contents

- 1 x AT-OME-CS31-SA
- 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> 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.

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 HDMI IN

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

4 HOST

Connect a USB cable from each of these ports to a host USB device.

5 MIC

This port is for future use.

6 VOICE L/R

Connect the included 5-pin captive screw connector from this port to a balanced analog audio input.

7 L/R

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

8 5V

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

9 FW

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

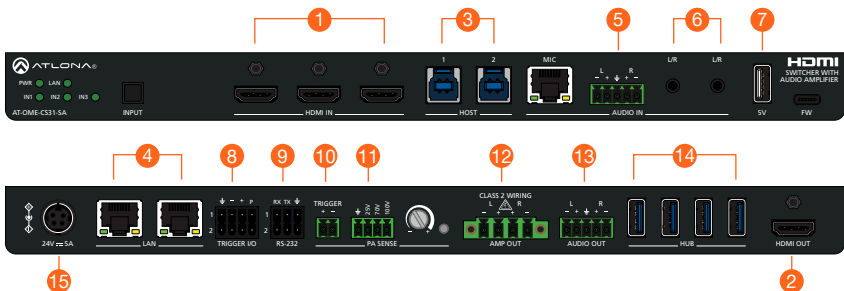
Rear Panel Descriptions



- | | |
|--|--|
| <p>1 24V / 5A
Connect the included 24 V / 5 A power supply from this port to an available AC electrical outlet.</p> <p>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.</p> <p>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).</p> <p>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).</p> <p>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.</p> | <p>6 GND/25V/75V/100V (PA SENSE)
Connect the included 4-pin captive screw connector from this port to a PA speaker system.</p> <p>7 Potentiometer (PA SENSE)
Adjusts the trigger voltage sensitivity.</p> <p>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).</p> <p>9 AUDIO OUT
Connect the included 5-pin captive screw connector from this port to an assistive listening device or additional amplifier.</p> <p>10 HUB
Connect up to 4 USB devices to these ports.</p> <p>11 HDMI OUT
Connect an HDMI cable from this port to a display.</p> |
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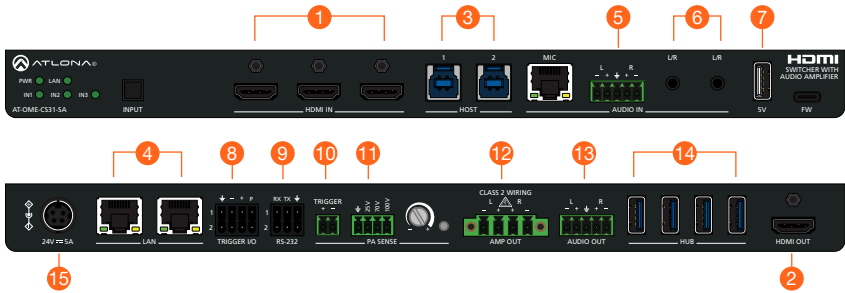
Installation

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 USB cable from these **HOST** ports to a computer.
4. 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.
5. 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.
6. Connect a music player, Bluetooth receiver, or other unbalanced stereo source to each of these **L/R** 3.5 mm mini-stereo ports.
7. Connect a USB device that needs power to this port, such as a Bluetooth receiver, to the **5V** port.
8. 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.
9. 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.
10. Connect the included 2-pin captive screw connector from the **TRIGGER (PA SENSE)** port to a fire alarm system or other contact-closure input.
11. 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.
12. 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).



Installation (continued)

13. Connect the included 5-pin captive screw connector from the **AUDIO OUT** port to an assistive listening device or additional amplifier.
14. Connect up to 4 USB devices to these **HUB** ports.
15. 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 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 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/>.



Chinese Declaration of Conformity 中国RoHS合格声明

由SKU列出於:

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



HIGH-DEFINITION MULTIMEDIA INTERFACE

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