



Omega 4K HDR 3x2 Matrix Switcher for HDMI and USB-C with HDMI Outputs

AT-OME-SW32



The Atlona AT-OME-SW32 is a 3x2 matrix switcher with HDMI and USB-C inputs, and HDMI outputs. It is HDCP 2.2 compliant and supports 4K HDR and 4K/60 4:4:4 at HDMI data rates up to 18 Gbps. The USB-C input is ideal for AV interfacing with newer Mac®, Chromebook™, and Windows® PCs, as well as smartphones and tablets. Additionally, 4K downscaling to 1080p is available on HDMI output 1 when connected to an HD sink. Depending on the intended application, the OME-SW32 can be set to specific switching modes that include mirrored outputs (default), one of the outputs fixed to an input, or unrestricted matrix switching.

For additional integration convenience, the OME-SW32 features automatic input selection, automatic display control, balanced audio de-embedding (linked to HDMI output 1), control via TCP/IP and RS-232, and remote management with AMS (Atlona Management System). This versatile, compact matrix switcher is ideal for under-table mounting in meeting spaces, to serve applications with side-by-side displays, videoconferencing, interfacing with OmniStream networked AV systems, secondary switching into a larger AV system, and more.

Package Contents

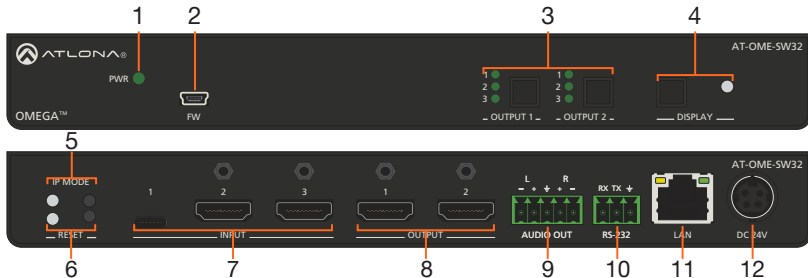
- 1 x AT-OME-SW32
- 1 x Captive screw connector, 5-pin
- 1 x Captive screw connector, 3-pin
- 1 x USB-C cable
- 4 x Mounting screws
- 1 x Pair rack mount ears
- 1 x 24V DC power supply
- 1 x IEC power cord
- 1 x Installation Guide



IMPORTANT: Visit <https://atlona.com/product/AT-OME-SW32> for the latest firmware updates and User Manual.



Panel Descriptions

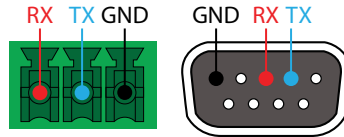
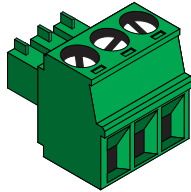


- 1 PWR LED**
Illuminates green when receiving power.
- 2 FW port**
Connect a mini USB cable from this port to a PC to firmware update the unit.
- 3 OUTPUT 1 & OUTPUT 2**
Use the button to switch between sources, the LEDs will illuminate to show the selected source.
NOTE: Output two button and LED will only be functional in Matrix Mode.
- 4 DISPLAY button and LED**
Press the display button to trigger an on/off command for the display. The LED will blink while the command is being sent. By default, the display button will mute the video output of the HDMI ports.
- 5 IP MODE button and LED**
Press and hold the button for 5 seconds until the LED blinks to switch the IP mode between DHCP and Static IP modes. The LED will blink 2 times for DHCP and 3 times for static IP.
- 6 RESET button and LED**
Press and hold the button for 5 seconds until the unit resets. The LED will blink as the unit resets to factory default settings.
- 7 INPUT**
Connect the USB-C or HDMI sources to these ports.
- 8 OUTPUT**
Connect HDMI cables from these ports to HDMI displays.
- 9 AUDIO OUT**
Connect to an audio DSP, amplifier, or other audio distribution devices.
- 10 RS-232**
Use for device or display control.
- 11 LAN**
Connect an Ethernet cable from this port to a Local Area Network (LAN).
- 12 DC 24V**
Connect the included DC 24V power supply to this port.



RS-232

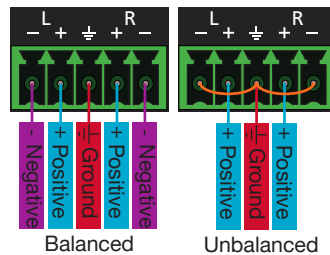
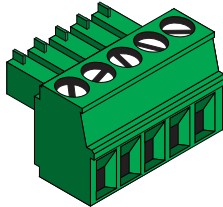
A 3-pin captive screw connector has been included for RS-232.



Pin out will be determined by the RS-232 cable and connect as RX (receive), TX (transmit) and $\perp$ (Ground).

Audio

Connect to an audio DSP, amplifier, or other audio distribution devices.

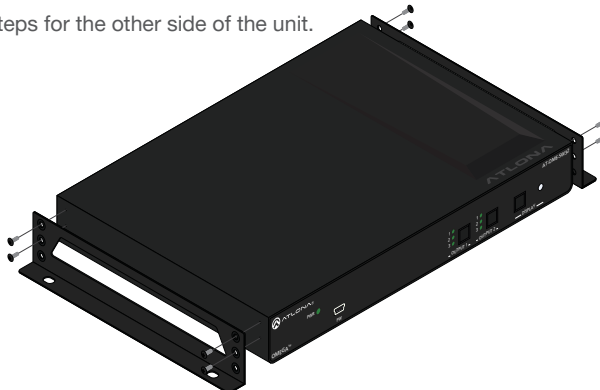


Use a jumper between the negative and ground pins when using an unbalanced connection.

Mounting Instructions

The AT-OME-SW32 includes two mounting brackets and four mounting screws, which can be used to attach the units to any flat surface.

1. Remove the top 2 case screws on the side of the unit.
2. Align the mounting brackets to the side of the units.
3. Use the previously removed case screws to secure the mounting bracket to the enclosure.
4. Repeat the steps for the other side of the unit.





5. Mount the unit using the oval-shaped holes, on each mounting bracket. If using a drywall surface, a #6 drywall screw is recommended.



NOTE: Mounting brackets can also be inverted to mount the unit under a table or other flat surface.



Installation

1. Connect HDMI and USB-C Sources to the inputs.
2. Connect up to two HDMI displays to the outputs.
3. Connect the 2CH analog AUDIO OUT ports to a DSP, or audio amplifier.
4. *Optional* For control, connect to the 3-pin captive screw RS-232 port.
5. *Optional* Connect a network switch to the LAN port, for IP control, system configuration, or Ethernet routing.
6. Connect the included DC 24V power supply to the power port.
7. Connect the included IEC power cord from the power supply to a compatible power outlet.



IP

DHCP

By default, the AT-OME-SW32 is set to DHCP mode. In this mode, when the AT-OME-SW32 is connected to the Local Area Network (LAN), it will automatically be assigned an IP address by the DHCP server (if available). Press and release the IP MODE button to show the IP address in the top left corner of the display.

Static

If no DHCP server is available, or a static IP is required, the SW32 can be set to static IP mode using the IP MODE button.

- Press and hold the **IP MODE** button for 5 seconds to switch to static IP mode, the LED will blink 3 times when it goes into Static IP mode. In this mode, the AT-OME-SW32 will be set to the following:
IP address: 192.168.1.254
Subnet mask 255.255.0.0
Gateway: 192.168.1.1
- To switch back to DHCP, press and hold the IP MODE button for 5 seconds. The LED will blink 2 times when successfully put into DHCP mode.

Accessing the webGUI

The AT-OME-SW32 includes a built-in webGUI, which allows easy remote management and control of all features. Follow the instructions below to access the webGUI.

1. Make sure that an Ethernet cable is connected between the **LAN** port on the AT-OME-SW32 and the network.
2. Use an IP scanner to determine the IP address of the unit.
3. Launch a web browser and enter the IP address in the address bar.
4. The AT-OME-SW32 **Login** page will be displayed.
5. Enter the following information on the **Login** page.
Login: admin
Password: Atlona
6. Click the **Login** button.
7. Refer to the user manual for detailed operation of the webGUI.



AMS 2.0

For easy configuration of Atlona devices , AMS 2.0 is available from <https://atlona.com/ams> for free. Two options can be used for installation: The free Linux based software download or the easy to install server hardware (AT-AMS-HW).

Once AMS has been set up:

1. Open a browser on the same network as AMS 2.0 and go to the IP address of AMS 2.0. View the AMS 2.0 installation instructions on how to find the IP address of the software.
2. Enter the login information on the AMS 2.0 web page, then click the **Login** button.
3. View the AT-OME-SW32 manual for routing and configuration information.



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Installation Guide

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Notes:



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Version 3



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