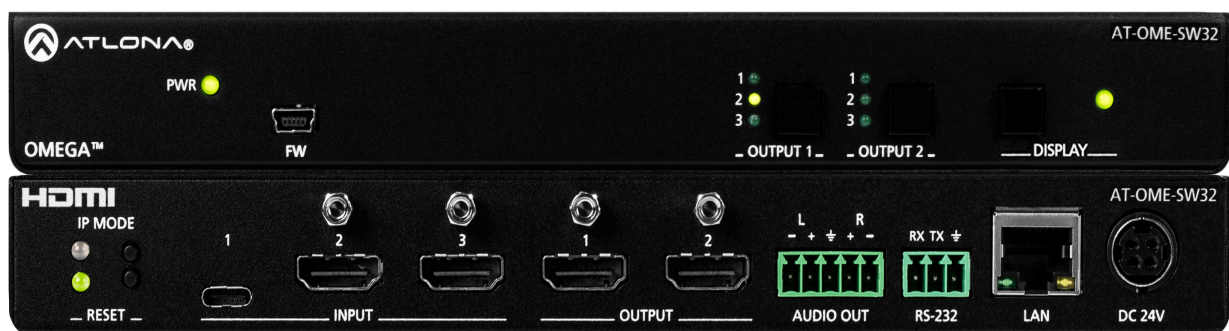


OMEGA™

4K HDR 3x2 Matrix Switcher

for HDMI and USB-C with HDMI Outputs



Version Information

Version	Release Date	Notes
6	Jul 2024	new color format

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Operating Notes



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

Warranty



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

<https://atlona.com/warranty/>.

Important Safety Information



CAUTION: TO REDUCE THE RISK OF
ELECTRIC SHOCK
DO NOT OPEN ENCLOSURE OR EXPOSE
TO RAIN OR MOISTURE.
NO USER-SERVICEABLE PARTS
INSIDE REFER SERVICING TO
QUALIFIED SERVICE PERSONNEL.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the product.



The information bubble is intended to alert the user to helpful or optional operational instructions in the literature accompanying the product.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this product near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install or place this product near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of a polarized or grounding-type plug. A polarized plug has two

blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the product.
11. Only use attachments/accessories specified by Atlona.
12. To reduce the risk of electric shock and/or damage to this product, never handle or touch this unit or power cord if your hands are wet or damp. Do not expose this product to rain or moisture.
13. Unplug this product during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the product has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the product, the product has been exposed to rain or moisture, does not operate normally, or has been dropped.



FCC Compliance

FCC Compliance and Advisory Statement: This hardware 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. 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 in a commercial installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed or used in accordance with the instructions, may cause harmful interference to radio communications. However there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: 1) reorient or relocate the receiving antenna; 2) increase the separation between the equipment and the receiver; 3) connect the equipment to an outlet on a circuit different from that to which the receiver is connected; 4) consult the dealer or an experienced radio/TV technician for help. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Where shielded interface cables have been provided with the product or specified additional components or accessories elsewhere defined to be used with the installation of the product, they must be used in order to ensure compliance with FCC regulations.

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Introduction

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.

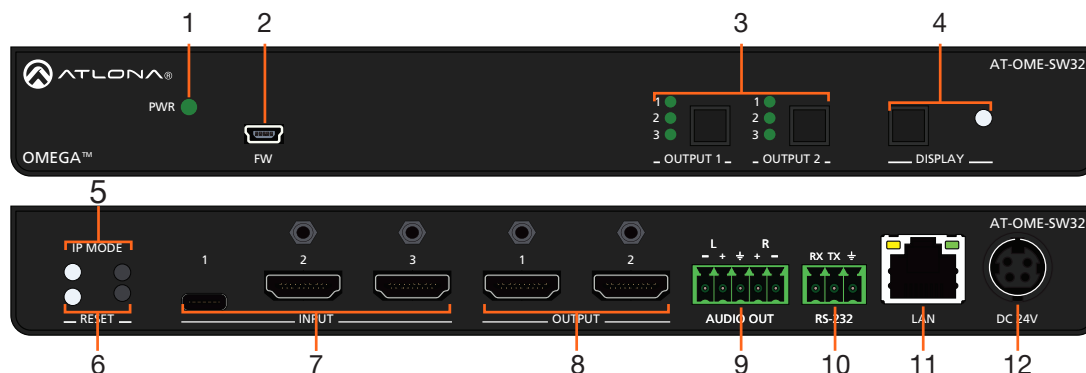
Features

- Three selectable switching modes
- Supports resolutions up to 4K/UHD 60Hz @ chroma sub-sampling 4:4:4, 4K HDR, Dolby Vision, and HLG
- HDCP 2.2 compliant
- EDID learning for multiple display EDIDs
- Built in internal EDIDs provide 12 unique EDIDs to ensure compatibility
- Multiple control options such as RS-232, TCP/IP, webGUI, and front panel
- Multi-channel audio pass through up to Dolby Digital Plus, Dolby TrueHD, DTS-HD Master Audio, and Dolby Atmos
- 2Ch audio de-embedding using the analog audio port

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

Panel Description



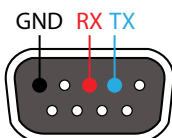
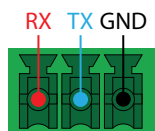
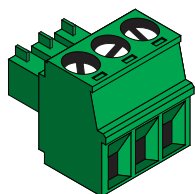
- 1 PWR LED**
Illuminates green when receiving power.
- 2 FW port**
Connect a mini USB cable from this port to a PC to firmware update the unit.
- 3 OUTPUT 1 & OUTPUT 2**
Use the button to switch between sources, the LEDs will illuminate to show the selected source.
NOTE: Output two button and LED will 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 4 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.

Installation

Captive Screw Connections

RS-232

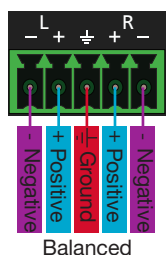
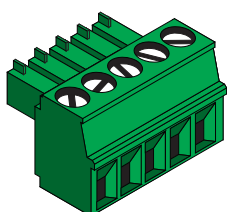
Connect to a control system for unit switching or to a display for power and audio display control.



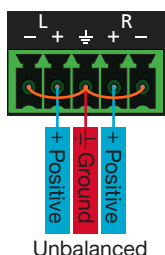
Pin out will be determined by the RS-232 cable and connect as RX (receive), TX (transmit) and $\perp$ (Ground).

Audio

De-embeds audio from HDMI Output 1 to send to an audio DSP, amplifier, or other audio distribution devices.



Balanced



Unbalanced

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.

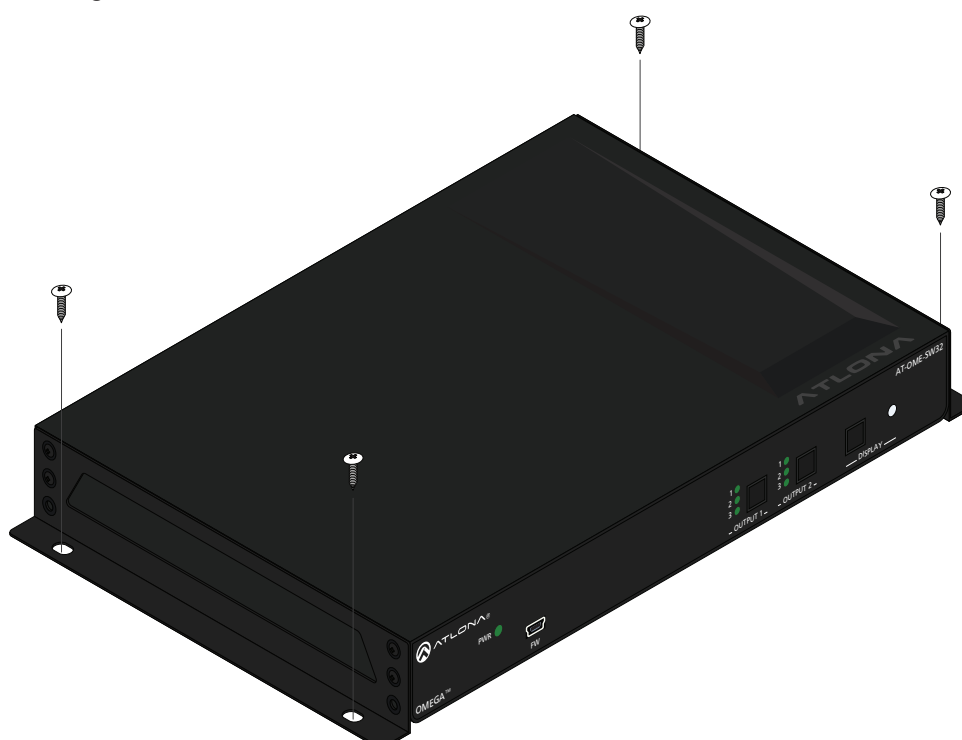
1. Remove the top 2 case screws on the side of the unit.
2. Align the mounting brackets to the side of the units.
3. Use the previously removed case screws to secure the mounting bracket to the enclosure.
4. Repeat the steps for the other side of the unit.



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.



Connection Instructions

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 (e.g. AT-GAIN-60).
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 Modes

DHCP

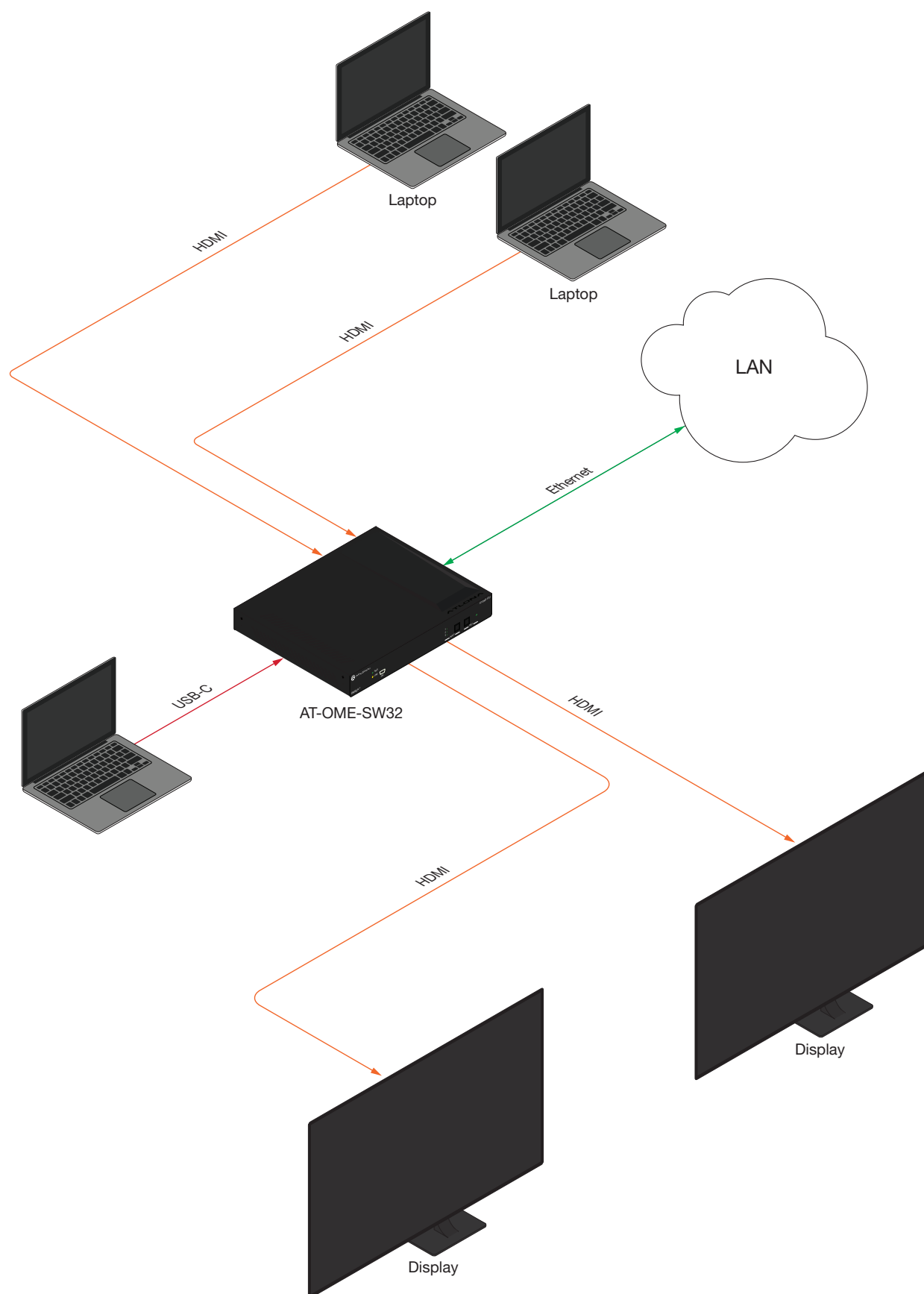
By default, the AT-OME-SW32 is set to DHCP mode. In this mode, when the AT-OME-SW32 is connected to the Local Area Network (LAN), it will automatically be assigned an IP address by the DHCP server (if available).

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 or webGUI.

- Press and hold the **IP MODE** button for 5 seconds to switch to static IP MODE, the LED will blink 4 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.

Connection Diagram



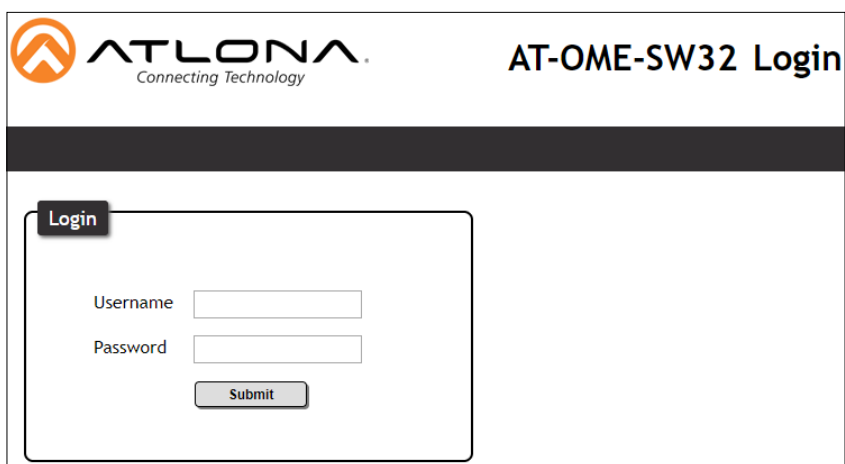
WebGUI

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.

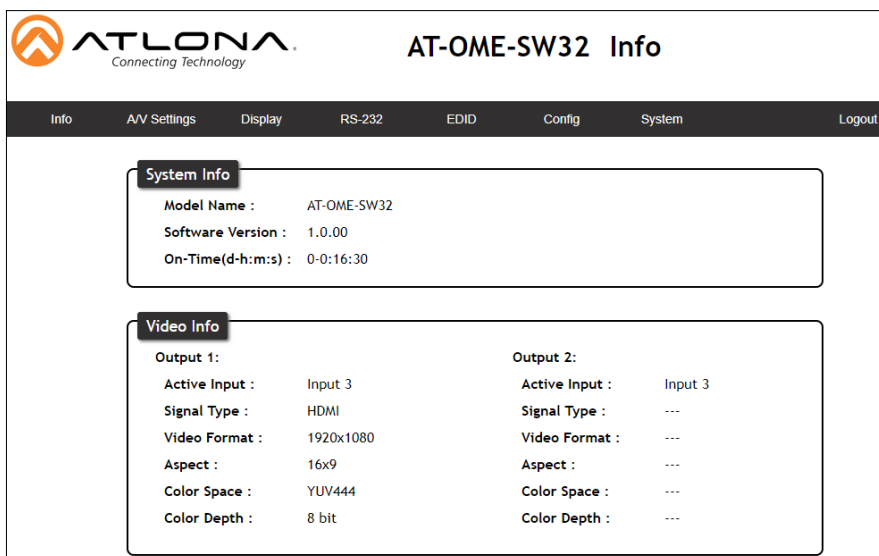
1. Make sure that an Ethernet cable is connected between the **LAN** port on the AT-OME-SW32 and the network.
2. Use an IP scanner to determine the IP address of the unit.
3. Launch a web browser and enter the IP address in the address bar.
4. The AT-OME-SW32 **Login** page will be displayed.
5. Enter the following information on the **Login** page.

Login: admin

Password: Atlona

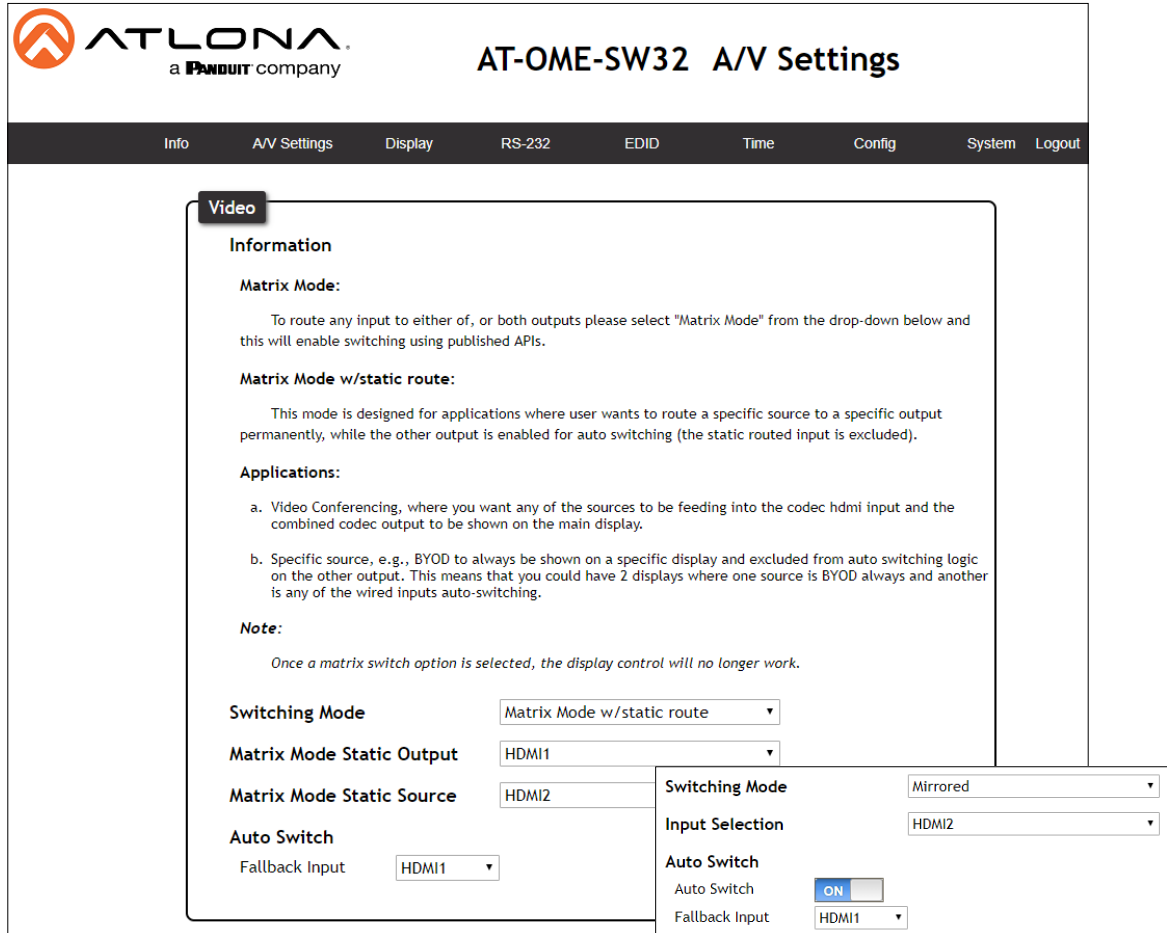


6. Click the Login button. The info page will display, giving all the general information of the AT-OME-SW32.



Audio/Video Settings

Select A/V Settings from the top navigation to adjust routing and video settings.



ATLONA
a Panduit company

AT-OME-SW32 A/V Settings

Info A/V Settings Display RS-232 EDID Time Config System Logout

Video

Information

Matrix Mode:

To route any input to either of, or both outputs please select "Matrix Mode" from the drop-down below and this will enable switching using published APIs.

Matrix Mode w/static route:

This mode is designed for applications where user wants to route a specific source to a specific output permanently, while the other output is enabled for auto switching (the static routed input is excluded).

Applications:

- Video Conferencing, where you want any of the sources to be feeding into the codec hdmi input and the combined codec output to be shown on the main display.
- Specific source, e.g., BYOD to always be shown on a specific display and excluded from auto switching logic on the other output. This means that you could have 2 displays where one source is BYOD always and another is any of the wired inputs auto-switching.

Note:

Once a matrix switch option is selected, the display control will no longer work.

Switching Mode Matrix Mode w/static route

Matrix Mode Static Output HDMI1

Matrix Mode Static Source HDMI2

Auto Switch

Fallback Input HDMI1

Switching Mode Mirrored

Input Selection HDMI2

Auto Switch

Auto Switch ☒ ON

Fallback Input HDMI1

Switching Mode

Mirrored - When selected from the drop down menu, both HDMI outputs will pass source signal from the same selected source. This mode is selected by default.

Matrix Mode - When selected, each HDMI Output will route source signals independently.

Matrix Mode w/static route - Selecting this will enable the second output to auto route input signals while the first output will stay fixed to the chosen input.



NOTE: When Matrix Mode is selected, display control becomes inoperable and the Display tab will be inaccessible in the webGUI.

Matrix Mode Static Output (Matrix Mode w/static route)

HDMI 1 or HDMI 2 - Choose which port will be set to the static source. This output will not auto switch.

Matrix Mode Static Source (Matrix Mode w/static route)

USB-C, HDMI 1 or HDMI 2 - Select which source will be routed to the static output.

Input Selection (Mirrored Mode)

Mirrored - Manually select the input that will be routed to the outputs.

Auto Switch

Auto Switch (mirrored mode) - Enable (ON) or disable (OFF) auto switch mode, this will switch inputs whenever a new source signal is activated or when the current input signal is lost or turned off.

Fallback Input - Select which input the unit will fall back to when the current signal is lost or turned off.

Audio

HDMI1 Output

☐ OFF

HDMI2 Output

☐ OFF

Analog Output

☐ OFF

HDCP

HDCP Settings

USBC ☐ OFF

HDMI1 ☐ OFF

HDMI2 ☐ OFF

Audio

On - Unmutes the audio output signal, allowing audio to pass through the output.

Off - Mutes the audio output signal of the selected port. No audio will pass when selected.



NOTE: Analog audio output is de-embedded from HDMI output port 1.

NOTE: Audio must be 2 channel to de-embed and is not downmixed from multichannel.

HDCP Settings

On - Sets the HDCP of the unit to auto, allowing HDCP to switch between compliant and non-compliant according to the source and display HDCP status.

Off - Sets the unit to HDCP non-compliant. No HDCP compliant source signals will pass in this mode.



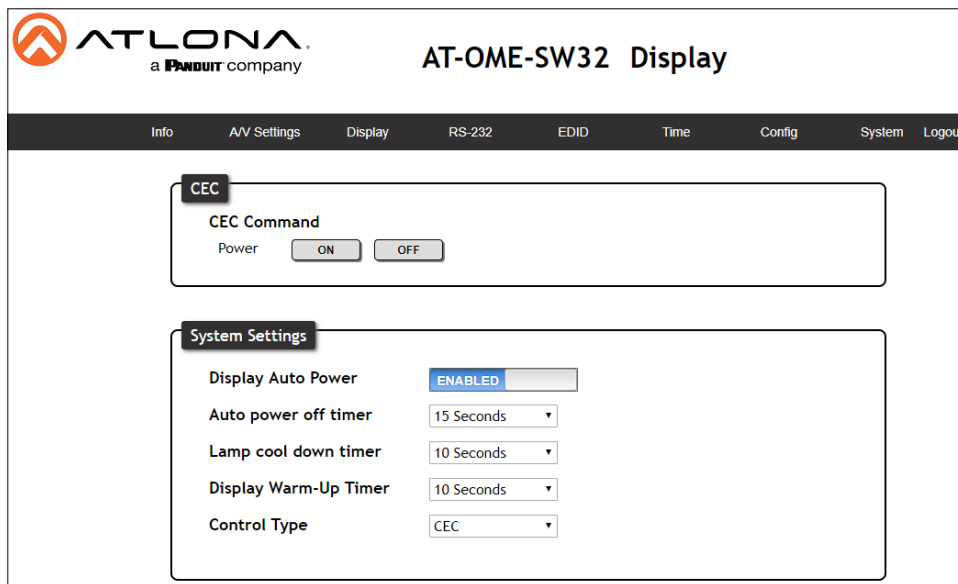
NOTE: Some sources flag all content as protected, by selecting HDCP off the source device may send only user created content. In some cases, the source must be configured to send content to non-HDCP devices (e.g. HDCP must be turned off within a PS4's settings to pass unprotected content).

Display

Select Display from the top navigation to adjust display control settings.



NOTE: The Display page is only available when in mirrored or matrix switching w/static mode.



The screenshot shows the webGUI interface for the ATLONA AT-OME-SW32 Display. The header includes the ATLONA logo and the model name. A navigation bar contains links for Info, A/V Settings, Display (selected), RS-232, EDID, Time, Config, System, and Logout. The main content area is divided into two sections: CEC and System Settings. The CEC section has a 'CEC Command' label and a 'Power' button with 'ON' and 'OFF' options. The System Settings section includes a 'Display Auto Power' toggle set to 'ENABLED', an 'Auto power off timer' dropdown set to '15 Seconds', a 'Lamp cool down timer' dropdown set to '10 Seconds', a 'Display Warm-Up Timer' dropdown set to '10 Seconds', and a 'Control Type' dropdown set to 'CEC'.

CEC

Command: Power - Press to send the CEC power on or off command out through the HDMI ports.

System Settings

Display Auto Power - Sets the unit to send the display power on/off command to the output.

Auto Power Off Timer - Sets the unit to send the display power off command to the output when signal is no longer received for the set auto power off time.

Lamp cool down timer - Sets the time between when the display is turned off and when the next command can be sent.

Display Warm-Up Timer - Sets the amount of time between when the display is turned on to when the unit sends any commands.

Control Type - Selects which command type is used to send commands and what type of control signal is sent when the display button is pressed. Options are CEC, TCP/IP or RS-232.

TCP/IP Settings of Controlled Device

IP Mode Non-Login ▼ IP Address 192.168.1.1 Port 23 Username admin Password Save	IP Mode Non-Login ▼ IP Address 192.168.1.2 Port 23 Username admin Password
---	--

TCP/IP Settings of Controlled Device (only available when IP is selected)

IP Mode - Toggle telnet login mode between Non-Login and Login. If set to Login, a username and password will be required to control the controlled device via TCP/IP.

IP Address - Sets to the IP of the controlled device/display.

Telnet Port - Set the telnet port of the controlled device for control. Default is 23.

Username & Password - Sets the username and password that is required when login mode is enabled.

NOTE: Currently only the first column is used. The second column will be for a future feature update.

RS232/IP commands

Manufacturer Generic ▼
Products Generic ▼
Model Generic ▼

Display Commands
[Please use \x as a delimiter for HEX values]

Repeat Command
 Status DISABLED
 Times 2 ▼

ON	PW 1	Send
OFF	PW 0	Send
Volume+	VOL+	Send
Volume-	VOL-	Send
Mute	MUTE	Send
Mute On	MUTE ON	Send
Mute Off	MUTE OFF	Send

Save
Revert

RS232/IP commands

Manufacturer Generic ▼
Products Generic ▼
Model Generic ▼

Repeat Command
 Status DISABLED
 Times 2 ▼

ON	PW 1	Send
OFF	PW 0	Send
Volume+	VOL+	Send
Volume-	VOL-	Send
Mute	MUTE	Send
Mute On	MUTE ON	Send
Mute Off	MUTE OFF	Send

RS232/IP commands

Manufacturer Panasonic ▼
Products Panasonic Projector ▼
Model Panasonic Projector ▼

Repeat Command
 Status DISABLED
 Times 2 ▼

ON	PW 1	Send
OFF	PW 0	Send
Volume+	VOL+	Send
Volume-	VOL-	Send
Mute	MUTE	Send
Mute On	MUTE ON	Send
Mute Off	MUTE OFF	Send

RS-232 / IP Commands

Manufacturer, Products, Models - Select the make and model of the display for control. Commands have been programmed into the unit for a wide range of products. If the current display is not found within the database, use generic and manually adjust the command fields.

Repeat Command - Enable Status to repeat the commands. Default repeat number is 2 and can be adjusted from 2 to 4 times.

Commands: On/Off/Volume/Mute - These fields will automatically be filled with the correct command when selecting a manufacturer and product from the drop down menus. If manually entering the commands, type them into the fields next to the command name.

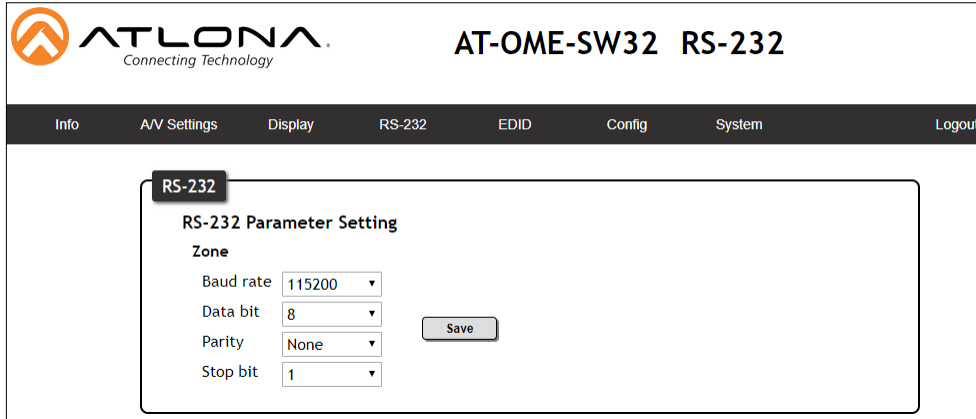
Send - Use this button to send the command to the display, this can be used while manually typing the commands to ensure the commands are correct.

Save - Save the commands to the webGUI. Manufacturer, products, and Model will revert to Generic but the commands will be saved from the previously selected and saved Manufacturer, products, and model selection.

Revert - Sets the commands back to the previously saved settings.

RS-232

Select RS-232 from the top navigation to adjust the zone control parameters for the RS-232 port.

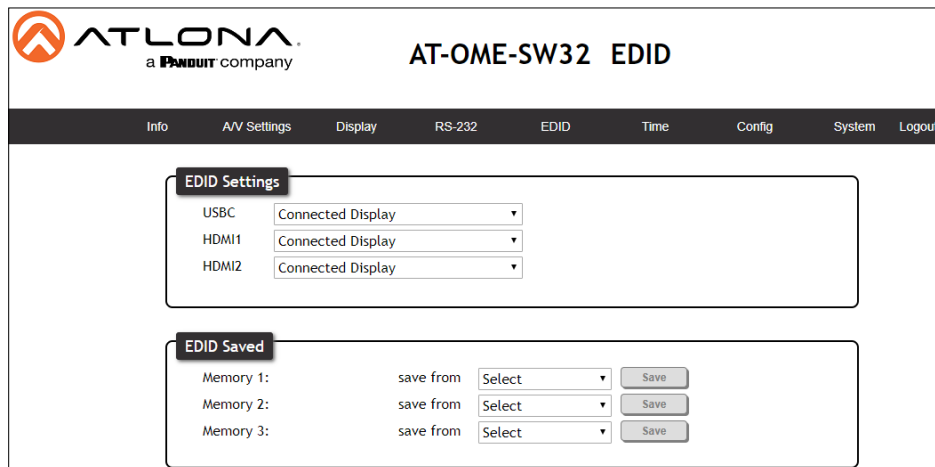


RS-232 Parameter Setting

Zone - Select the baud rate, data bit, parity, and stop bit to match the display's parameters. Defaults are 115200, 8, None, and 1.

EDID

Select EDID from the top navigation to save/load EDIDs.



EDID

EDID Settings - Use the drop down menu to select between EDID choices.

EDID Selections			
Connected Display	Chooses the highest common resolution between source and display		
Internal	3840x2160 2CH w/ HDR	1600x900 2CH	1280x800 2CH
	1920x1200 2CH	1440x900 2CH	1280x720 2CH
	1920x1080 2CH	1366x768 2CH	1024x768 2CH
Saved	3 Memory slots		

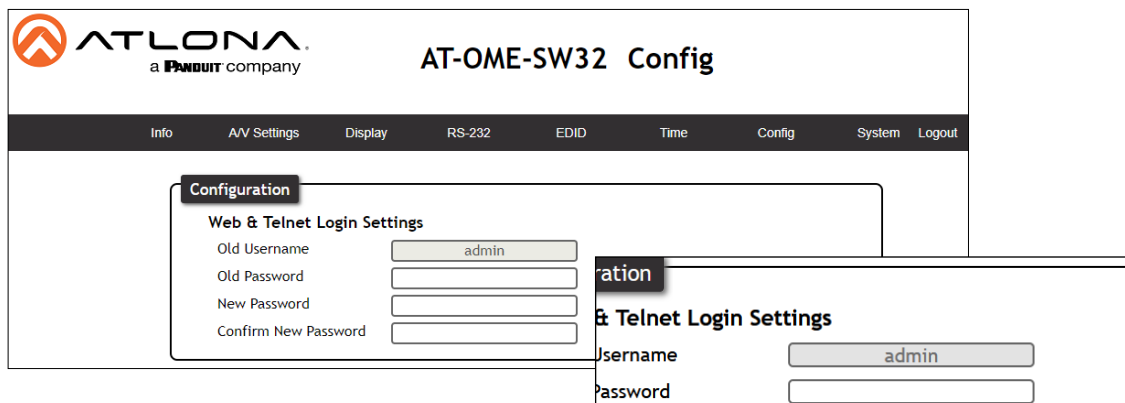
EDID Saved - The ID field will display the memory # and currently saved EDID name, select the output from the drop down menu to be saved. Once the output is selected, press the save button to make it available in the EDID settings drop down menus.



NOTE: Output 1 provides automatic 4K to 1080p scaling unless another EDID is selected.

Config

Select Config from the top navigation to update the admin password.



The screenshot shows the AT-OME-SW32 Config webGUI interface. The top navigation bar includes links for Info, A/V Settings, Display, RS-232, EDID, Time, Config, System, and Logout. The main content area is titled "Configuration" and contains a section for "Web & Telnet Login Settings". This section includes fields for Old Username (admin), Old Password, New Password, and Confirm New Password. A separate section for "Web & Telnet Login Settings" is also visible, showing fields for Username (admin) and Password.

Users

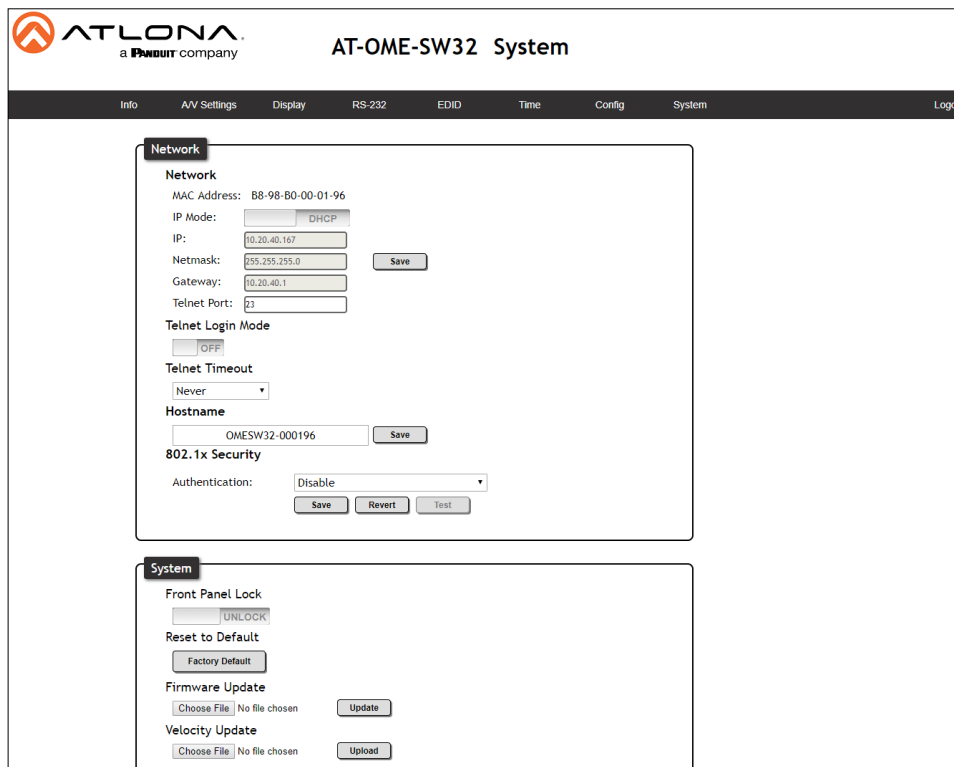
Admin Password - Update the admin password for the switcher. Only the admin password may be changed, the username will remain admin.

NOTE: The passwords cannot contain any special characters. e.g. !@#\$%^&*?+-;,'".

Once the new password has been entered, press the Save button to make the password live. The user will be logged out and must log back in with the new password.

System

Select System from the top navigation to adjust network and system options.



The screenshot shows the AT-OME-SW32 System webGUI interface. The top navigation bar includes links for Info, AV Settings, Display, RS-232, EDID, Time, Config, System, and Logout. The main content area is divided into two sections: Network and System.

Network Section:

- MAC Address: B8-98-B0-00-01-96
- IP Mode: ☐ DHCP ☐ Static
- IP:
- Netmask:
- Gateway:
- Telnet Port:
- Telnet Login Mode: ☐ OFF
- Telnet Timeout:
- Hostname:
- 802.1x Security:

System Section:

- Front Panel Lock: ☐ UNLOCK
- Reset to Default:
- Firmware Update: No file chosen
- Velocity Update: No file chosen

Network

MAC Address - Displays the MAC address of the unit.

IP Mode - Switch between static and DHCP IP modes.

IP, Netmask, Gateway - This will display the unit's current DHCP IP settings. When set to static, fill in the IP address, netmask, and gateway.

Telnet Port - Set the telnet port if needed for control. Default port is 23.

Telnet Login Mode - Toggle telnet login mode on and off. If on, a username and password will be required to control the unit via telnet.

Telnet Timeout - Set the amount of time between actions before the current user is logged out. Default is 10000 seconds.

Hostname - Set the name for the matrix, this will show up in network discovery.

802.1x Security - Select between Disable, Protected EAP (PEAP), TLS, and Tunneled TLS security options.

System

Front Panel Lock - Lock or unlock the front panel buttons.

Reset to Default- Press the Factory Default button to set the unit back to all factory settings, including IP mode.

Firmware update - Use the choose file button to search the local PC for the firmware file. Once selected, press the update button to start the firmware update.



NOTE: Firmware updates and release notes can be found at <https://atlona.com/product/AT-OME-SW32/>.

Appendix

Configuration and Setup Guide

This section will provide a step by step guide for basic set up and configuration for A/V routing and control.

Installation

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.

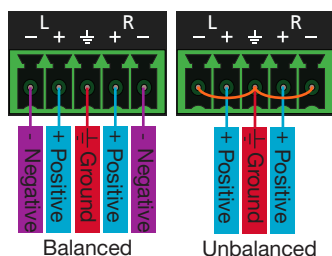
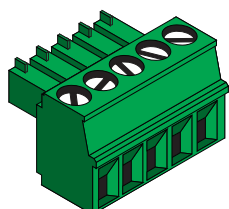


NOTE: Mounting brackets can also be inverted to mount the unit under a table or other flat surface.



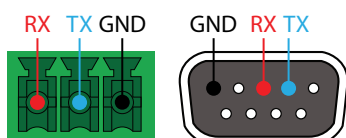
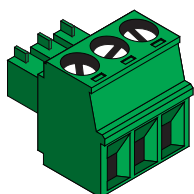
Connection

1. Connect the sources to the input ports.
2. Connect up to two HDMI displays to the outputs.
3. *Optional* Connect the 2CH analog AUDIO OUT ports to a DSP, or audio amplifier (e.g. AT-GAIN-60).



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

4. *Optional* For RS-232 control, connect to the 3-pin captive screw RS-232 port.



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

5. 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.

Configuration

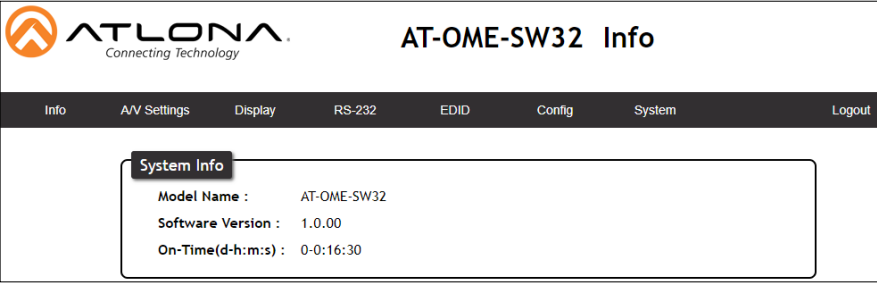
Configuration will be done through the webGUI.

By default the unit will be set to DHCP mode and receive an IP address from the network switch. If the server doesn't allow DHCP connections, press and hold the IP MODE button for 5 seconds. The LED will blink 4 times when set to static. The PC connecting to the unit will need to be set to the same IP range as the unit.

IP address: 192.168.1.254
 Subnet mask: 255.255.0.0
 Gateway: 192.168.1.1

1. Launch a web browser and enter the IP address in the address bar.
2. The AT-OME-SW32 **Login** page will be displayed.
3. Enter the following information on the **Login** page.

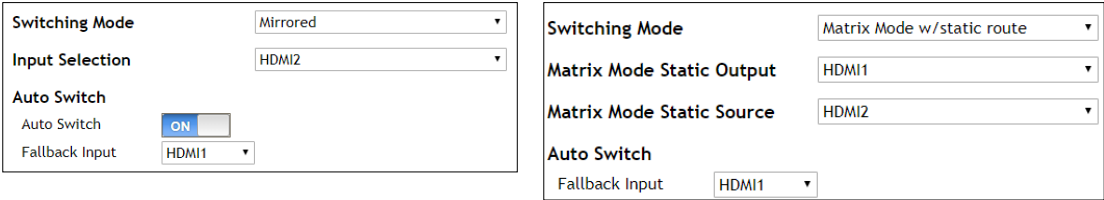
Login: admin
 Password: Atlona



The screenshot shows the AT-OME-SW32 webGUI. At the top is the ATLONA logo and the title "AT-OME-SW32 Info". Below the title is a navigation bar with tabs: Info, A/V Settings, Display, RS-232, EDID, Config, System, and Logout. The "System Info" tab is selected, showing a box with the following information:

- Model Name : AT-OME-SW32
- Software Version : 1.0.00
- On-Time(d-h:m:s) : 0-0:16:30

4. By default, the SW32 will be in Mirrored Mode, with Auto switching enabled. Change this on the A/V Settings page to the needed mode.
 - a. Select **A/V Settings** from the top menu.
 - b. Select the switching mode from the drop down menu. Mirrored Mode and Matrix Mode w/Static Route are the only modes with auto switching available. Auto switching will only work on the non-static output.



The first screenshot shows the "Switching Mode" dropdown set to "Mirrored", "Input Selection" set to "HDMI2", "Auto Switch" set to "ON", and "Fallback Input" set to "HDMI1".

The second screenshot shows the "Switching Mode" dropdown set to "Matrix Mode w/static route", "Matrix Mode Static Output" set to "HDMI1", "Matrix Mode Static Source" set to "HDMI2", and "Auto Switch" set to "HDMI1".

5. By default, the SW32 will have HDCP on auto. Change this within the A/V Settings page if needed.
 - a. Select **A/V Settings** from the top menu.
 - b. Select the slider next to the port to switch between auto (ON) and non-compliant (OFF) HDCP.



NOTE: Some sources flag all content as protected, by selecting HDCP off the source device may send only user created content. In some cases, the source must be configured to send content to non-HDCP devices (e.g. HDCP must be turned off within a PS4's settings to pass unprotected content).



The screenshot shows the "HDCP Settings" page. It has a title "HDCP" and a section "HDCP Settings" with three rows, each with a port name and a slider set to "OFF":

- USBC: OFF
- HDMI1: OFF
- HDMI2: OFF

6. The SW32 will have EDID on pass through, with Output 1 downscaling 4K signal to 1080p automatically. To change the settings on this, go to the EDID page.
 - a. Select **EDID** from the top menu.
 - b. Select the internal or saved EDID from the drop down menu next to the corresponding port.
 - c. If no EDIDs have been saved, select the display from the EDID Saved Memory drop down and press the **Save** button.

EDID Settings

USBC	Connected Display ▼
HDMI1	Connected Display ▼
HDMI2	Connected Display ▼

EDID Saved

Memory 1:	save from	Select ▼	Save
Memory 2:	save from	Select ▼	Save
Memory 3:	save from	Select ▼	Save

EDID Selections

Connected Display	Chooses the highest common resolution between source and display		
Internal	3840x2160 2CH w/ HDR	1600x900 2CH	1280x800 2CH
	1920x1200 2CH	1440x900 2CH	1280x720 2CH
	1920x1080 2CH	1366x768 2CH	1024x768 2CH
Saved	3 Memory slots		

Control

The SW32 has the ability to control the display with CEC, RS-232, and TCP/IP. Each can be triggered through the webGUI, RS-232 commands, and IP commands.

1. By Default, CEC will be set as the control type.
 - a. Select **Display** from the top menu.
 - b. Set the Auto power on/off parameters. Defaults are set to turn the display on/off after 15 seconds of signal loss or gain and to wait 10 seconds between on and off commands being sent after an on/off event.
 - c. Power on and off can be triggered through the webGUI by pressing the ON or OFF.
 - d. Power on and off can also be triggered by an RS-232 or TCP/IP command being sent to the unit. View the AT-OME-SW32 API found at https://atlona.com/pdf/AT-OME-SW32_API.pdf to see commands.

CEC

CEC Command
 Power ON OFF

System Settings

Display Auto Power	ENABLED
Auto power off timer	15 Seconds ▼
Lamp cool down timer	10 Seconds ▼
Display Warm-Up Timer	10 Seconds ▼
Control Type	CEC ▼

2. The SW32 will have RS-232 zone control parameters automatically set. If using RS-232 control, ensure these parameters match the controlled device.
 - a. Select **RS-232** from the top menu.
 - b. Select the Baud rate, Data bit, Parity, and Stop bit from the drop down menus to match the device.
 - c. Press the **Save** button.

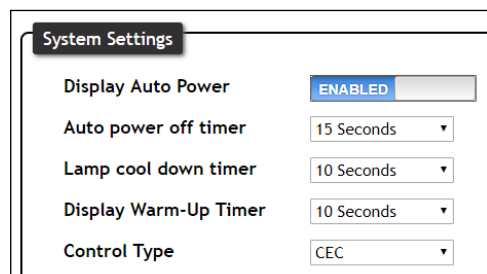
RS-232

RS-232 Parameter Setting

Zone			
Baud rate	115200 ▼		
Data bit	8 ▼		
Parity	None ▼		
Stop bit	1 ▼		

Save

- d. Select **Display** from the top menu.
- e. Set the Auto power on/off parameters. Defaults are set to turn the display on/off after 15 seconds of signal loss or gain and to wait 10 seconds between on and off commands being sent after an on/off event.
- f. Select **RS-232** from the Control Type drop down menu. New options will appear below the System Settings.



System Settings

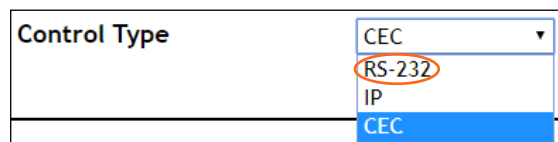
Display Auto Power: **ENABLED**

Auto power off timer: 15 Seconds

Lamp cool down timer: 10 Seconds

Display Warm-Up Timer: 10 Seconds

Control Type: CEC



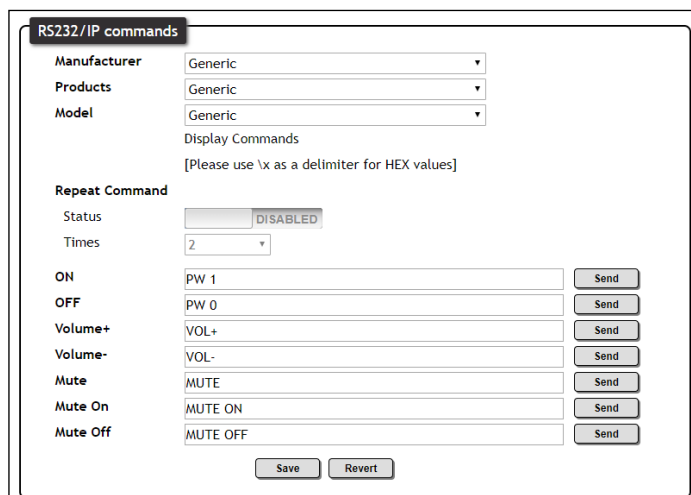
Control Type

CEC

RS-232

IP

CEC



RS232/IP commands

Manufacturer: Generic

Products: Generic

Model: Generic

Display Commands

[Please use \x as a delimiter for HEX values]

Repeat Command

Status: **DISABLED**

Times: 2

ON: PW 1 **Send**

OFF: PW 0 **Send**

Volume+: VOL+ **Send**

Volume-: VOL- **Send**

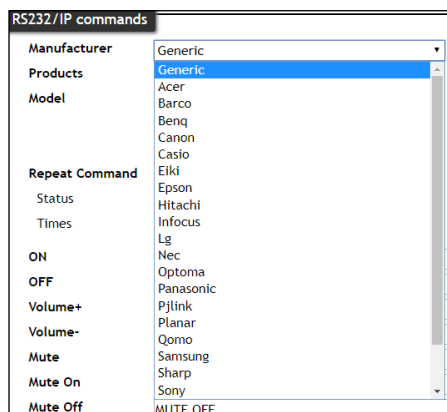
Mute: MUTE **Send**

Mute On: MUTE ON **Send**

Mute Off: MUTE OFF **Send**

Save **Revert**

- f. The commands are built in for a large variety of displays. Select the manufacturer, product type, and model from the drop down menus. Commands have been programmed into the unit for a wide range of products. If the current display is not found within the database, use generic and manually adjust the command fields.
- g. Press the **Save** button.



RS232/IP commands

Manufacturer: Generic

Products: Generic

Model: Generic

Repeat Command

Status: **DISABLED**

Times: 2

ON: PW 1 **Send**

OFF: PW 0 **Send**

Volume+: VOL+ **Send**

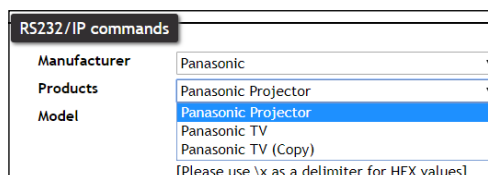
Volume-: VOL- **Send**

Mute: MUTE **Send**

Mute On: MUTE ON **Send**

Mute Off: MUTE OFF **Send**

Save **Revert**



RS232/IP commands

Manufacturer: Panasonic

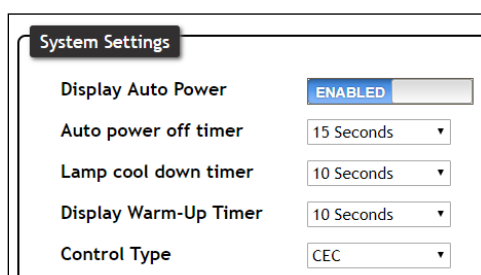
Products: Panasonic Projector

Model: Panasonic Projector

Display Commands

[Please use \x as a delimiter for HEX values]

3. The SW32 has the ability to control the display by TCP/IP commands. These commands can be triggered from the webGUI.
 - a. Select **Display** from the top menu.
 - b. Set the Auto power on/off parameters. Defaults are set to turn the display on/off after 15 seconds of signal loss or gain and to wait 10 seconds between on and off commands being sent after an on/off event.
 - c. Select **IP** from the Control Type drop down menu. New options will appear below the System Settings.



System Settings

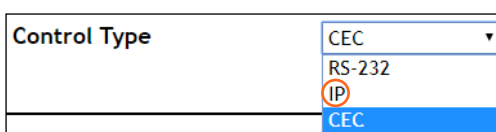
Display Auto Power: **ENABLED**

Auto power off timer: 15 Seconds

Lamp cool down timer: 10 Seconds

Display Warm-Up Timer: 10 Seconds

Control Type: CEC



Control Type

CEC

RS-232

IP

CEC

TCP/IP Settings of Controlled Device	
IP Mode	Non-Login
IP Address	192.168.1.1
Port	23
Username	admin
Password	*****
Save	



NOTE: Currently only the first column is used. The second column will be for a future feature update.

- d. Set the IP information and mode to match the display's current settings. IP Mode will be default Non-Login, but can be set to login mode which will require the Username and Password to be entered in the corresponding fields to match the display's parameters. IP address and Port will be needed to send IP commands to the display.
- e. The commands are built in for a large variety of displays. Select the manufacturer, product type, and model from the drop down menus. Commands have been programmed into the unit for a wide range of products. If the current display is not found within the database, use generic and manually adjust the command fields.
- f. Press the **Save** button.

RS232/IP commands	
Manufacturer	Generic
Products	Generic
Model	
Repeat Command	
Status	
Times	
ON	
OFF	
Volume+	
Volume-	
Mute	
Mute On	
Mute Off	

RS232/IP commands	
Manufacturer	Panasonic
Products	Panasonic Projector
Model	Panasonic Projector
	Panasonic TV
	Panasonic TV (Copy)
[Please use \x as a delimiter for HEX values]	

Specifications

Connectors, Controls, and Indicators	
HDMI IN	2 - Type A, 19-pin female
HDMI OUT	2 - Type A, 19-pin female
USB-C IN	1 - USB Type-C v3.1, 24-pin female, AV input (Alternate Mode)
FW	1 - Mini-USB, 5-pin female
AUDIO OUT	1 - 5-pin captive screw, balanced / unbalanced 2-channel
RS-232	1 - 3-pin captive screw (bidirectional)
LAN	1 - RJ45
DC 24V	1 - 4-pin, locking
PWR indicator	1 - LED, green
LINK indicator	1 - LED, amber
Control Buttons: INPUT, DISPLAY, IP MODE, RESET	4 - momentary, tact-type
Input Indicators: USB-C, HDMI IN 1, HDMI IN 2	3 - LED, green

Video		
UHD/HD/SD	4096x2160@60*/30/25/24Hz, 3840x2160@60*/30/25/24Hz, 1080p@60/59.9/50/30/29.97/25/24/23.98Hz, 1080i@30/29.94/25Hz, 720p@60/59.94/50Hz, 576p@50Hz, 576i@50Hz, 480p@60/59.96Hz, 480i@30Hz	
VESA @ 60Hz	2560x1600, 2048x1536, 1920x1200, 1680x1050, 1600x1200, 1440x900, 1400x1050, 1280x1024, 1280x800, 1366x768, 1360x768, 1152x864, 1024x768, 800x600, 640x480	
Scaler (HDMI output 1 only)	IN	OUT
	4K @ 24 Hz	1080p @ 24 Hz
	4K @ 30 Hz	1080p @ 30 Hz
	4K @ 60 Hz, 4:2:0	1080p @ 60 Hz (YUV/RGB, 4:4:4)
USB-C	Up to 4K/UHD @ 60Hz	
Color Space	YUV, RGB	
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0	
Color Depth	8-bit, 10-bit, 12-bit	
HDR	HDR10, Hybrid-Log Gamma (HLG), and Dolby® Vision™ @ up to 60Hz	

Audio	
HDMI Pass-Through Formats	PCM 2.0, LPCM 5.1, LPCM 7.1, Dolby® Digital, Dolby Digital Plus™, Dolby TrueHD, Dolby Atmos®, DTS® Digital Surround™, DTS-HD Master Audio™, and DTS:X®
Analog Audio Format	PCM 2.0
Sample Rate	32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz
Bit Rate	24 Mbits/s max

Resolution / Distance	4K/UHD - Feet / Meters		1080p - Feet / Meters		HDR - Feet / Meters	
HDMI IN/OUT	15	5	30	10	10	3

Signal	
HDMI	HDMI 2.0
CEC Support	Yes
HDCP	2.2

Appendix

Temperature	Fahrenheit	Celsius
Operating	32 to 122	0 to 50
Storage	-4 to 140	-20 to 60
Humidity (RH)	20% to 60%, non-condensing	

Power		
Operational	6.98 W	
Idle	2.85 W	
BTU/h	23.80 (Operational) / 9.72 (Idle)	
Supply	Input: 100 - 240 V AC, 50/60 Hz Output: 24 V / 2.7A DC	

Dimensions	Inches	Millimeters
H x W x D	1.02 x 8.62 x 5.98	26 x 219 x 152

Weight	Pounds	Kilograms
Device	1.87	0.85

Certification		
Device	CE, FCC, UL	

Compliance		
NDAA-889	Yes	
TAA	Yes	

Warranty		
3 years	View the full warranty information here: https://atlona.com/warranty	

