



## Introduction

The Atlona **AT-OME-SW32** is a 3x2 matrix switcher with HDMI and USB-C inputs, and HDMI outputs. Part of the Omega™ Series of integration products for modern AV communications and collaboration, the OME-SW32 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 @ 60, 30, and 24 Hz is available for one of the HDMI outputs 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.

## Applications

- Meeting rooms with dual displays**  
 The OME-SW32 is compact and easily installs under a conference table. The matrixed, dual HDMI outputs can directly feed into two flat-panel displays side-by-side.
- Conference rooms and classrooms**  
 One or more OME-SW32 units can be integrated with a larger AV switcher or matrix switcher.
- Multi-room AV distribution systems**  
 This compact matrix switcher is also ideal for localized switching into or out of a centralized AV distribution system such as OmniStream™.
- Video conferencing system upgrade**  
 The OME-SW32 can provide a cost-effective update to an existing system, adding 4K/60 capability with down-conversion to 1080p for the codec.

## Key Features

### 3x2 matrix switcher

- USB-C and two HDMI inputs, plus two HDMI outputs. Immediate compatibility with laptops and tablets with USB-C ports supporting A/V.
- No need to provide USB-C to HDMI adapters for USB-C\* AV sources.

### Selectable AV switching modes

- Three selectable switching modes, including mirrored HDMI outputs, matrixed outputs, and a special mode with one input fixed to one of the outputs.
- Enables simple configuration and effortless user operation, tailored to the specific AV application.

### 4K/UHD capability @ 60 Hz with 4:4:4 chroma sampling, plus support for HDR formats

- Ideal for new and emerging 4K/UHD and HDR-capable sources and displays. Supports HDR10 @ 60 Hz and Dolby Vision @ 60 Hz, as well as HLG.
- Fully supports video resolutions, audio formats, and color space formats in the HDMI 2.0b specification.

### Selectable 4K to 1080p downscaling

- Integrated video processing available on output 1 for down-converting 4K/UHD @ 60 Hz to 1080p
- Ideal for applications with 1080p displays, video conferencing codecs, and other HD sink devices .

### Automatic input selection and automatic display control

- Automatically changes display power state, and switches between inputs based on device connection or disconnection from the switcher. Also can be configured to power off display after a period of inactivity.
- Enables effortless, automated system operation without the need for an external control system.

### Audio de-embedding

- De-embeds two channel PCM audio from the selected video source on HDMI output 1 to a balanced, analog audio output.
- Independent mute control available for embedded two-channel PCM audio with both HDMI outputs.

\*USB-C port does not support USB data or device powering.

## 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, 100Base-T
DC 24V	1 - 4-pin, mini-DIN locking connector
PWR indicator	1 - LED, green
LINK indicator	1 - LED, amber
<b>Control Buttons:</b> INPUT, DISPLAY, IP MODE, RESET	4 - momentary, tact-type
<b>Input Indicators:</b> 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@60/59.94/50Hz, 720p@60/59.94/50Hz, 576p@50Hz, 576i@50Hz, 480p@60/59.96Hz, 480i@60Hz	
VESA	2560x1600, 2048x1536, 1920x1200, 1680x1050, 1600x1200, 1440x900, 1400x1050, 1280x1024, 1280x800, 1366x768, 1360x768, 1152x864, 1024x768, 800x600, 640x480	
Scaler	IN	OUT
	4K @ 24 Hz 4K @ 30 Hz 4K @ 60 Hz, 4:2:0	1080p @ 24 Hz 1080p @ 30 Hz 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

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
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