## Introduction

The Atlona **AT-OME-SW32** is a 3×2 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

**3×2 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 |
| **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, 3840×2160@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 | 2560×1600, 2048×1536, 1920×1200, 1680×1050, 1600×1200, 1440×900, 1400×1050, 1280×1024, 1280×800, 1366×768, 1360×768, 1152×864, 1024×768, 800×600, 640×480 | |
| 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<br>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 |