The Atlona AT-UHD-CLSO-824 is an 8x2, 4K/UHD matrix switcher with multi-format signal-handling, Ethernet-enabled 100M HDBaseT™ input/output extension, and advanced audio capabilities.

**Inputs -**
- Three Ethernet-enabled HDBaseT™ inputs
- Four HDMI inputs
- One multi-function analog video input

**Outputs -**
- Two Ethernet-enabled HDBaseT outputs, each with a mirrored HDMI output

**Presentation Matrix Switcher**
The AT-UHD-CLSO-824 brings advanced multi-format matrix switching to the CLSO series of classroom and small office switchers. The mix of inputs supports remote inputs from lecterns and conference room tables via HDBaseT transmission as well as local input sources in the equipment rack. The matrix serves a wide array of room configurations with two HDBaseT video outputs, each featuring a mirrored HDMI port to provide an additional output for a local display or an Atlona Extender Kit.

**100-meter HDBaseT Routing**
The AT-UHD-CLSO-824 offers three Ethernet-enabled HDBaseT inputs designed to provide system design flexibility. To increase the number of system inputs, designers can choose the HDVS-200 Series of HDBaseT transmitters that offers HDMI and VGA inputs with Ethernet or the HDVS-200 Series that offers HDMI and VGA inputs without Ethernet. The switcher is also compatible with the UHD-EX Series of HDBaseT extenders for HDMI signals with or without control signals (See compatibility chart, next page). Two HDBaseT outputs on the switcher provide extended distance AV signal extension up to 328 feet (100 m). These outputs are Ethernet-enabled to also provide extension of control signals to displays. All HDBaseT inputs and outputs feature industry standard Power over Ethernet to remotely power extender endpoints.

**Audio**
Sophisticated matrixing capabilities within the switcher include a dedicated audio mix-matrix for signals routed to the switcher's outputs. This gives integrators the ability to mix audio signals from either of the two selected video sources along with both mic/line inputs signals. Audio is de-embedded from the video signal for processing and mixing with the mic/line sources. The resulting audio mix is sent to the balanced line level analog outputs and re-embedded to the digital video outputs.

**The CLSO for complex systems**
The AT-UHD-CLSO-824 serves as the centerpiece of complex systems where audio and video signals must be dedicated to different zones. It also provides the flexibility to route identical or separate video signals to the two displays in larger rooms.

**The AT-UHD-CLSO-824 is ideal for use in:**
- Dual-screen classrooms, conference rooms, or training environments
- Divisible rooms with one screen per room
- Single-screen teleconference systems where content is required at the codec
8x2 matrix switcher with HDBaseT and HDMI ports for each output -
- Eight different sources may be switched to either of two outputs with mirrored HDBaseT/HDMI signals
- Serves a wide array of room configurations

Three HDBaseT inputs -
- Works with Atlona AT-HDVS-200 transmitters for placement at remote sources near lecterns, conference tables, and instructor’s desks
- Simplifies integration of remote sources by eliminating power supplies when used with PoE-powered transmitters; single category cable carries AV signals, control and power

Four HDMI inputs -
- Digital inputs to support up to four HDMI sources or DisplayPort and DVI sources with appropriate adapters
- Ideal for sources located at the equipment rack

Ethernet enabled, HDBaseT extension -
- Extends control signals from third party control processors via HDBaseT along with 4K/UHD video, and audio through a single cable 328 ft. (100m) performance
- Network connections simplify control system design

Audio output matrix mixer -
- Mix de-embedded digital audio along with analog mic/line level inputs and route to analog outputs or re-embed to video outputs
- Eliminates the need for complex external audio routing systems.

HDBaseT Input Compatibility
AT-HDVS-200-TX* or AT-HDVS-200-TX-WP*:
HDMI and VGA input, Ethernet-enabled, volume control, 328 ft. (100 m); Avail. Q4 ‘15

HDBaseT Output Compatibility
AT-UHD-EX-100CE-RX:
HDMI output, Ethernet-enabled, RS-232, 328 ft. (100 m)
AT-HDVS-200-RX*:
HDMI output, scaling, 230 ft. (70 m) Avail. Q1 ’16

*Product availability and release date subject to change without notice.
### Specifications

#### Video Resolutions

<table>
<thead>
<tr>
<th>Resolution</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video</td>
<td>4096x2160@24/25/30/50<em>60Hz</em>, 3840x2160@24/25/30/50<em>60Hz</em> (UHD), 2048x1080p, 1080p@23.98/24/25/29.97/30/50/59.94/60Hz, 1080i@50/59.94/60Hz, 720p@50/59.94/60Hz, 576p, 576i, 480p, 480i</td>
</tr>
<tr>
<td>VESA</td>
<td>2560x2048, 2560x1600, 2048x1536, 1920x1200, 1680x1050, 1600x1200, 1600x900, 1440x900, 1400x1050, 1366x768, 1360x768, 1280x1024, 1280x800, 1280x768, 1152x864, 1024x768, 800x600, 640x480</td>
</tr>
</tbody>
</table>

#### Color Space

- YUV, RGB

#### Chroma Subsampling

- 4:4:4, 4:2:2, 4:2:0

#### Color Depth

- 8-bit, 10-bit, 12-bit

#### Audio

- **Analog Output**: PCM 2Ch (de-embedded)
- **HDMI/HDBaseT Output**: PCM 2Ch, supports DTS and Dolby pass through
- **Sample Rate**: 32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz
- **Bit Rate**: up to 24-bit

#### Distance

<table>
<thead>
<tr>
<th>Distance</th>
<th>CAT5e/6 @ 4K</th>
<th>up to 70M</th>
<th>up to 230 ft</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CAT5e/6 @ 1080p</td>
<td>up to 100M</td>
<td>up to 328 ft</td>
</tr>
<tr>
<td></td>
<td>CAT6a/7 @ 4K</td>
<td>up to 100M</td>
<td>up to 328 ft</td>
</tr>
<tr>
<td></td>
<td>HDMI @ 4K</td>
<td>up to 5 meters</td>
<td>up to 15 feet</td>
</tr>
<tr>
<td></td>
<td>HDMI @ 1080p</td>
<td>up to 10 meters</td>
<td>up to 30 feet</td>
</tr>
</tbody>
</table>

#### Signal

- **Bandwidth**: 10.2 Gbps
- **CEC**: No
- **HDCP**: Switchable - Complaint / Non compliant

#### Temperature

- **Operating**: 0°C to 50°C (32°F to 122°F)
- **Storage**: -20°C to 60°C (-4°F to 140°F)
- **Humidity**: 20 to 90% non-condensing

#### Power

- **Consumption**: 78.54W
- **Idle Consumption**: 3.52W
- **Supply Input**: 100~240 VAC 50/60Hz
- **Output**: 48 VDC 3.125A

#### Dimension

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>H x W x D</td>
<td>44 x 433.8 x 255 (mm)</td>
</tr>
<tr>
<td>H x W x D w/feet</td>
<td>1.73 x 17.08 x 10.04 (inch)</td>
</tr>
<tr>
<td>Rack Unit</td>
<td>1U</td>
</tr>
</tbody>
</table>

#### Weight

<table>
<thead>
<tr>
<th>Weight</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device</td>
<td>3.49 kg</td>
</tr>
<tr>
<td>Rack Unit</td>
<td>7.69 lbs</td>
</tr>
</tbody>
</table>

#### Certification

- **Power Supply**: CE, FCC, cULus, RoHS, CCC, RCM
- **Product**: CE, FCC

*4096x2160@50/60Hz & 3840x2160@50/60Hz supported @ chroma subsampling 4:2:0 8-bit only

Specifications and availability subject to change without notice. Actual products, product images, and online product images may vary from images shown here. Not responsible for typographical errors.