



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-150 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-150 or 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 with 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.



AT-HDVS-150-TX-WP (Transmitter)

## HDBaseT Input Compatibility

### AT-HDVS-200-TX\* or AT-HDVS-200-TX-WP\*:

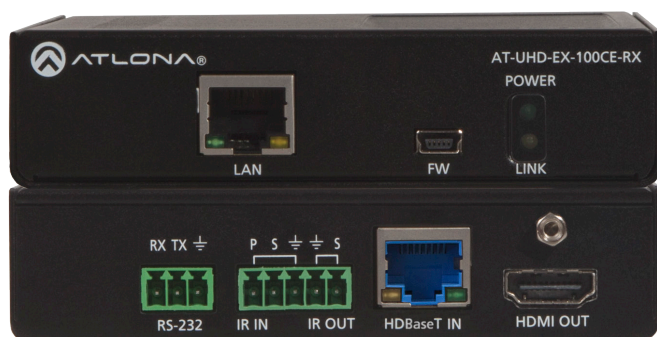
HDMI and VGA input, Ethernet-enabled, volume control, 328 ft. (100 m); Avail. Q4 '15

### AT-HDVS-150-TX\* or AT-HDVS-150-TX-WP\*:

HDMI and VGA input, 230 ft. (70 m); Avail. Q3 '15



AT-HDVS-150-TX (Transmitter)



AT-UHD-EX-100CE-RX (Receiver)

## HDBaseT Output Compatibility

### AT-UHD-EX-100CE-RX:

HDMI output, Ethernet-enabled, RS-232, 328 ft. (100 m)

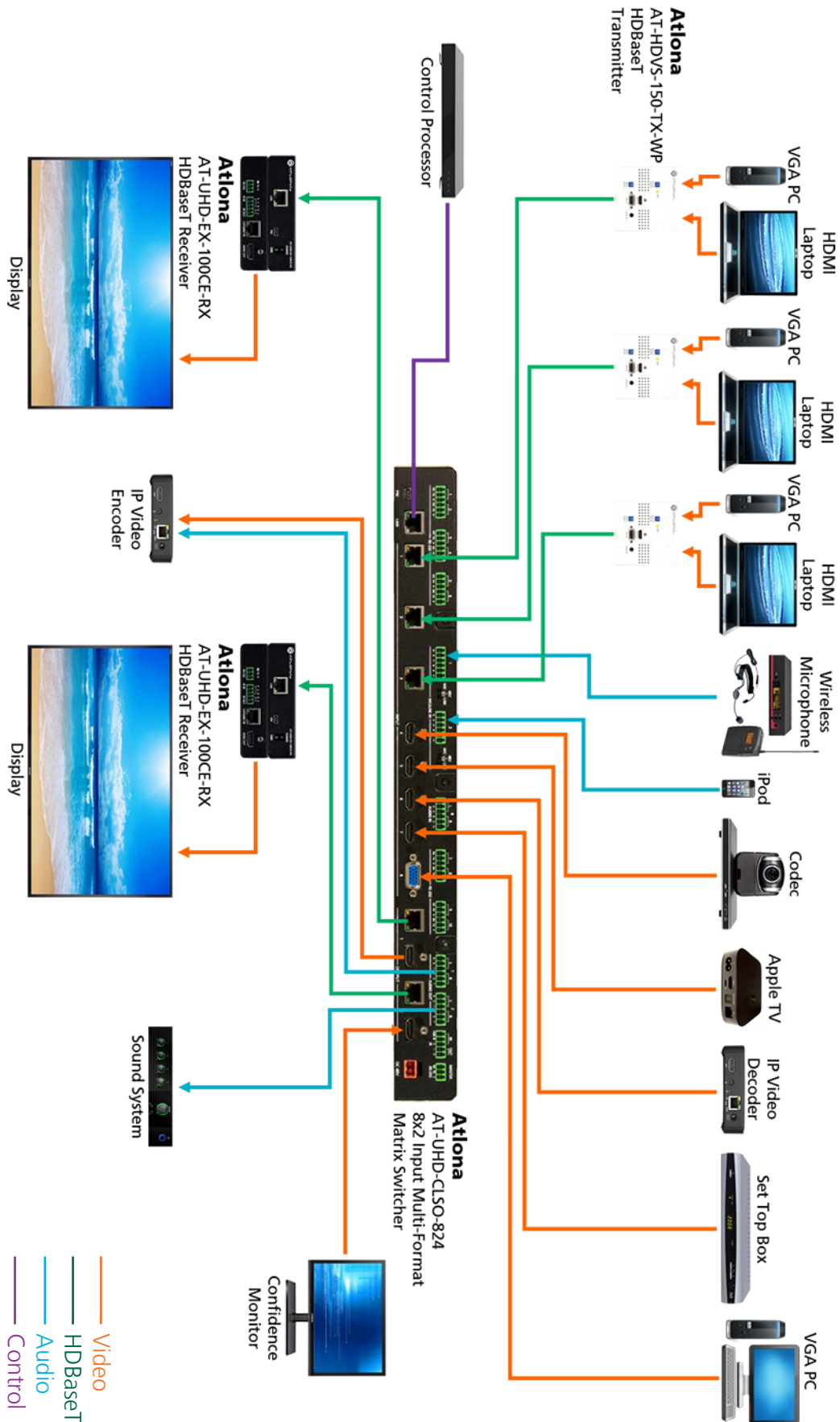
### AT-HDVS-200-RX\*:

HDMI output, Ethernet-enabled, scaling, 328 ft. (100 m)  
Avail. Q4 '15

### AT-HDVS-RX\*:

HDMI output, scaling, 230 ft. (70 m)

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



## Specifications

### Video Resolutions

Video	4096x2160@24/25/30/50*/60Hz*, 3840x2160@24/25/30/50*/60Hz* (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
VESA	2560x2048, 2560x1600, 2048x1536, 1920x1200, 1680x1050, 1600x1200, 1600x900, 1440x900, 1400x1050, 1366x768, 1360x768, 1280x1024, 1280x800, 1280x768, 1152x864, 1024x768, 800x600, 640x480
Colorspace	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

CAT5e/6 @ 4K	up to 70M	up to 230 ft
CAT5e/6 @ 1080p	up to 100M	up to 328 ft
CAT6a/7 @ 4K	up to 100M	up to 328 ft
HDMI @ 4K	up to 5 meters	up to 15 feet
HDMI IN/OUT @ 1080p	up to 10 meters	up to 30 feet

### Signal

Bandwidth	10.2 Gbps
CEC	Yes
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

H x W x D	44 x 433.8 x 255 (mm)	1.73 x 17.08 x 10.04 (inch)
w/feet	55.15 x 433.8 x 255 (mm)	2.17 x 17.08 x 10.04 (inch)
Rack Unit	1U	

### Weight

Device	3.49 kg	7.69 lbs
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### 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.