



The Atlona AT-UHD-H2H-44M is a 4x4 HDMI to HDMI matrix switcher with advanced control capability. It routes any 4K/UHD @ 60Hz (4:2:0, 8-bit) source to any 4K/UHD destination with full HDCP 2.2 content protection. For ease of setup and management, the matrix includes a GUI-based integrated web server for HDCP/EDID reporting, system configuration, and device status. The WebGUI uses an easy, intuitive drop down menu for fast setup and troubleshooting in the field. Additional control capabilities include I/O routing from tablets, smart phones or PCs. The matrix is control system-friendly and integrates with any TCP/IP, RS-232, or IR-based control system. Flexible control capability is also provided by the supplied IR remote and front panel controls. The AT-UHD-H2H-44M is ideal for professional HDMI signal routing in residential and commercial applications where a number of AV sources must be shared throughout four zones to reduce the installed equipment footprint and to reduce the costs associated with multiple, redundant devices. The AT-UHD-H2H-44M features a 1U, rack-mountable enclosure with an external, international power supply.

As ultra-high definition sources and displays become more readily available, the need for 4K/UHD signal distribution with the latest High-bandwidth Digital Copy Protection (HDCP) standards becomes critical. The AT-UHD-H2H-44M was designed to ensure system designers, integrators and owners are not caught off-guard as these content protections are enforced at the source. Even if the matrix is installed to upgrade an existing matrix or to expand a system using older content protection standards, system owners can be assured that the matrix at the heart of their system will not need to be replaced as the source and display equipment gets updated to the newer standards that come with 4K/UHD content.

4-input/4-output HDMI matrix -

- Each of the four sources can be simultaneously distributed to all four zones
- Reduces redundant source equipment and integration costs; eliminates the space needed for source equipment within the zone

4K/UHD 60Hz capability with HDCP 2.2 copy protection -

- Compatible with ultra-high definition PCs and other sources and displays and adheres to latest content protection specification
- Future proofs AV systems in preparation for technology improvements, 4K/UHD streaming services and playback devices

TCP/IP, RS-232, and IR, control -

- Flexible control options compatible with any 3rd-party control system
- Reduces integration time and costs

Integrated web server with WebGUI -

- Provides HDCP/EDID reporting, system configuration, and device status plus I/O routing from tablets, smart phones or PCs
- Speeds setup and troubleshooting in the field; simplifies remote management and control

Fast, blink-free input switching -

- Input selection changes occur in less than three seconds with no loss of signal (video blinking) to other zones; Eliminates long wait times caused by handshaking and content protection key validation
- Ensures an uninterrupted viewing experience for all zones

Rack mountable 1U, full rack width enclosure -

- Installs easily in rack mounted systems with included 19" rack mount brackets
- Reduces space needed for installation

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, 1152x768, 1024x768, 800x600, 640x480
Color Space	YUV, RGB
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0
Color Depth	8-bit, 10-bit, 12-bit

Audio

HDMI	PCM 2Ch, LPCM 5.1, LPCM 7.1, Dolby Digital, DTS 5.1, Dolby Digital Plus, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos
Sample Rate	32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz
Bit Rate	up to 24-bit

Distance

HDMI IN/OUT @ 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	No
HDCP	2.2

Temperature

Operating	0°C to 40°C	32°F to 104°F
Storage	-40°C to 70°C	-40°F to 158°F
Ambient	0°C to 70°C	32°F to 158°F
Humidity	20 to 90% non-condensing	

Power

Consumption	25W
Idle Consumption	5W
Supply	Input: 90/264 VAC 50/60Hz Output: DC 12V/5A

Dimension

H x W x D w/feet	55.22 x 439.74 x 254 (mm)	2.17 x 17.31 x 10 (inch)
H x W x D w/rack ears	44.20 x 482.60 x 254 (mm)	1.74 x 19.00 x 10 (inch)
Rack Unit	1U	

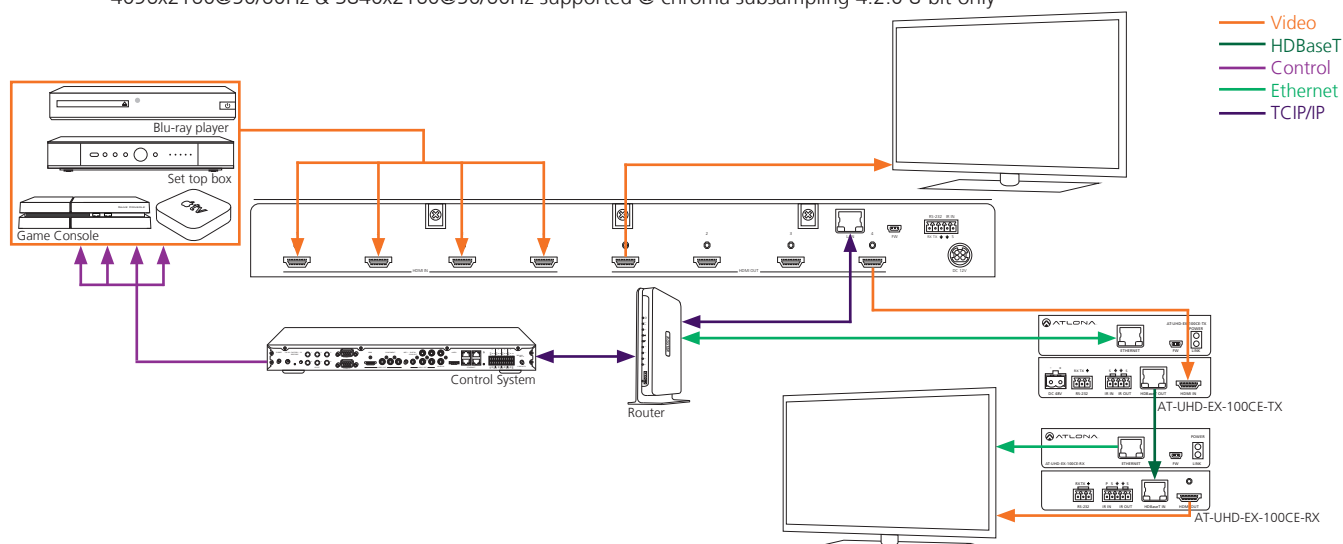
Weight

Device	2.97 kg	6.55 lbs
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Certification

Power Supply	CE, TUV, RCM, UL, CCC, PSE, AS, AU-GEMS, BSMI, CB, DOE, EMC, FCC
Product	CE

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



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