

AMS READY

The Atlona AT-UHD-CAT-4ED is a 4K/UHD HDMI to HDBaseT™ distribution amplifier featuring pass-through HDMI input connections, four extended distance, Ethernet-enabled HDBaseT outputs and display control capability. Each output transmits AV and control signals up to 328 ft. (100 m). Features include 4K/UHD @ 60 Hz with 4:2:0 color subsampling, HDCP 2.2 compliance, EDID management, and PoE for powering remote receivers. A wide variety of consumer and commercial displays may be controlled by the AT-UHD-CAT-4ED using CEC, IR, RS-232 or IP. Designed for commercial distribution applications, the AT-UHD-CAT-4ED is control system-friendly and integrates with any TCP/IP, RS-232, or IR control system and features a 1U, half-rack width enclosure with external, international power supply. Compatible Atlona receiver: AT-UHD-EX-100CE-RX.

Signal distribution applications increasingly require compatibility with HDCP 2.2, 4K/UHD @ 60 Hz support with 4:2:0 color subsampling to ensure images reach displays with compatible copy protection and with the pristine digital image quality of the original signal, without artifacts resulting from inferior image distribution systems. HDBaseT distribution ensures reliable, long-distance transmission of high resolution audio and video signals. These core features along with added display control provide additional flexibility. Power over Ethernet not only provides compatibility with Atlona Extender products but enables HDBaseT Certification.

Four Ethernet-enabled, extended distance HDBaseT outputs with transmission of AV and control signals and PoE -

- Extended distance, 328 foot (100 m) outputs offer Ethernet plus bidirectional extension of both RS-232 and IR control plus remote receiver power
Compatible Atlona receiver: AT-UHD-EX-100CE-RX
- Provides additional options for display placement while a single category cable per display reduces size of bundles and conduit to reduce cost of installation

Display control -

- CEC, IP, IR or RS-232 control signals transmitted over HDBaseT
- Enables control of a wide variety of displays including commercial or low-cost consumer displays

HDMI distribution amplifier with built-in HDBaseT transmission -

- Combines signal distribution and extended distance transmission into a single enclosure; eliminates several devices and power supplies
- Reduces overall system costs, speeds installation, and prevents compatibility issues

4K/UHD capability with HDCP 2.2 copy protection -

- Compatible with ultra-high definition sources and displays; adheres to latest content protection specification
- Ensures AV distribution systems are ready for 4K/UHD streaming services and playback devices

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, DTS:X
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
CAT6a/7 @ 4K	up to 100M	up to 328 ft
CAT5e/6 @ 1080p	up to 100M	up to 328 ft
HDMI IN/OUT @ 4K	up to 5M	up to 15 ft
HDMI IN/OUT @ 1080p	up to 10M	up to 30 ft

Signal

Bandwidth	10.2 Gbps
CEC	Compliant
HDCP	Compliant 2.2

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	60W
Idle Consumption	13.5W
Supply	Input: AC 100-240V ~ 50/60Hz Output: DC 48V/3.125A

Dimension

H x W x D	44 x 222.25 x 261 (mm)	1.73 x 8.75 x 10.28 (inch)
Rack Unit	1/2 rack, 1RU	

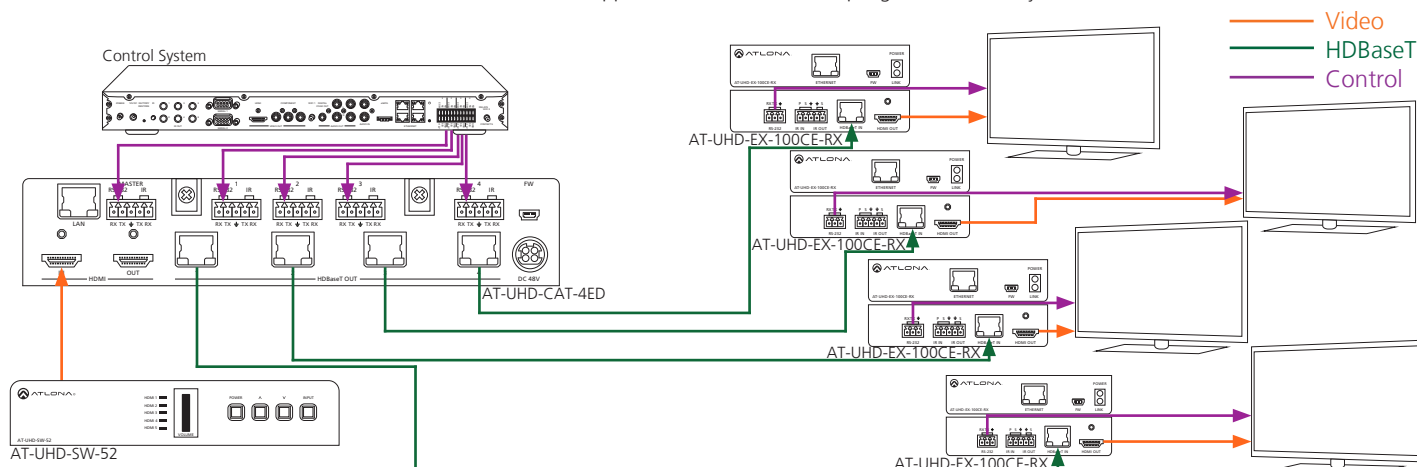
Weight

Device	1.66 kg	3.70 lbs
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Certification

Unit	CE, FCC
Power Supply	CE, FCC, Level VI, RoHS, cULus, RCM, CCC

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



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