

AT-UHD-CAT-4ED



The Atlona AT-UHD-CAT-4ED is a 4K/UHD HDMI to HDBaseT[™] distribution amplifier featuring passthrough 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

AT-UHD-CAT-4ED

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, 2048x15	2560x2048, 2560x1600, 2048x1536, 1920x1200, 1680x1050, 1600x1200, 1600x900, 1440x900, 1400x1050, 1366x768, 1360x768, 1280x1024, 1280x800, 1280x768, 1152x768, 1024x768, 800x600,	
Color Space Chroma Subsampling	YUV, RGB 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,	
Sample Rate Bit Rate	32kHz, 44.1kHz, 48kHz, 88.2kHz,	DTS-HD Master Audio, Dolby Atmos, DTS:X 32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz up to 24-bit	
Distance			
CAT5e/6 @ 4K CAT6a/7 @ 4K CAT5e/6 @ 1080p HDMI IN/OUT @ 4K HDMI IN/OUT @ 1080	up to 70M up to 100M up to 100M up to 5M 0p up to 10M	up to 230 ft up to 328 ft up to 328 ft up to 15 ft up to 30 ft	
Signal			
Bandwidth CEC HDCP	10.2 Gbps Compliant Compliant 2.2		
Temperature			
Operating Storage Humidity	0°C to 50°C -20°C to 60°C 20 to 90% non-condensing	32°F to 122°F -4°F to 140°F	
Power	20 to 50 /0 non condensing		
Consumption Idle Consumption Supply	60W 13.5W Input: AC100-240V ~ 50/60Hz Output: DC 48V/3.125A		
Dimension	odipat. De 10003.1257		
H x W x D Rack Unit	44 x 222.25 x 261 (mm) 1/2 rack, 1RU	1.73 x 8.75 x 10.28 (inch)	
Weight			
Device	1.66 kg	3.70 lbs	
Certification	-		
Unit	CE, FCC		
Power Supply	CE, FCC, Level VI, RoHS, cULus, R	CM, CCC	



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