

## 4K/UHD 4-Output HDMI to HDBaseT Extended Distance Distribution Amplifier

AT-UHD-CAT-4ED



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



# 4K/UHD 4-Output HDMI to HDBaseT Extended Distance Distribution Amplifier

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### **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  $0^{\circ}\text{C to }50^{\circ}\text{C}$   $32^{\circ}\text{F to }122^{\circ}\text{F}$  Storage  $-20^{\circ}\text{C to }60^{\circ}\text{C}$   $-4^{\circ}\text{F to }140^{\circ}\text{F}$ 

Humidity 20 to 90% non-condensing

**Power** 

Consumption 60W Idle Consumption 13.5W

Supply Input: AC100-240V ~ 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

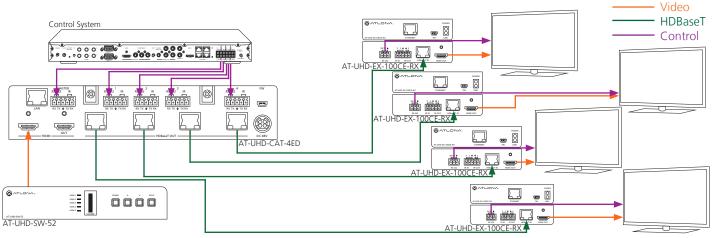
Device 1.66 kg 3.70 lbs

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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