



Introduction

The Atlona **AT-HDR-CAT-4ED** is a high dynamic range (HDR) distribution amplifier with one HDMI® input and four extended distance HDBaseT[™] outputs. Each output transmits 4K/UHD video @ 60 Hz with 4:4:4 chroma sampling plus support for HDR formats, multi-channel audio, Ethernet, control signals, and power up to 330 ft. (100 m) over Category 6/6A cable. The HDR-CAT-4ED features sophisticated integration capabilities designed for commercial AV distribution applications including HDMI pass-through, audio de-embedding, EDID management, CEC display control, RS-232 and IR control extension, remote power for receivers, and HDBaseT link testing. It offers compatibility with any TCP/IP or RS-232 control system and is housed in 1U, half-rack width enclosure with external universal power supply. The HDR-CAT-4ED is ideal for sending HDR and 4K/60 4:4:4 content to AT-HDR-EX-100CEA-RX receivers.

Applications

• Hospitality and retail

Ideal for hotel lobbies, malls, stores, and restaurants that need long distance signal extension of high-impact marketing content and program information.

Commercial

Display company information on screens in reception areas or production and safety information on screens in the warehouse and manufacturing floor.

Education

Complements lecture hall and auditorium AV systems by allowing presentation content to be distributed to repeater displays located throughout the space



Key Features

- 4K HDR extended distance distribution amplifier with one HDMI input and four HDBaseT outputs.
- Pass-through HDMI output to support local monitor.
- 4K/UHD capability @ 60 Hz with 4:4:4 chroma sampling.
- Supports HDR10, HLG, and Dolby® Vision™ HDR formats.
- Features visually lossless compression with no latency to enable HDR and 4K/60 4:4:4 video signal extension over HDBaseT.
- HDBaseT outputs extend HDMI, Ethernet, control signals, and power up to 330 feet (100 meters) for both 4K HDR and 1080p with Category 6/6A.
- Bidirectional RS-232 and IR control extension for each output.
- Remotely powers compatible receivers over HDBaseT.
- CEC display control sends display power on/off commands over HDBaseT using the power button, IP, or RS-232.
- Audio de-embedding to balanced analog output with volume control for integration with a separate audio system.
- HDBaseT link test verifies cable, termination, and link quality for more reliable installations.
- Multi-channel audio pass-through.
- Cascade up to 8 units to expand system without compromising performance.
- Compliant with HDCP 2.2, the latest specification for passing protected content between devices.
- Manages EDID communications with the source through a display's EDID or internally stored EDID.
- Intuitive GUI-based configuration using integrated web server.
- Flexible control options via TCP/IP, RS-232, and IR with Atlona Velocity[™] or third-party control systems.
- Front panel includes LEDs for power, HDBaseT link, and HDMI signal status information as well as buttons for power and EDID control.
- Compatible with HDR-EX-100CEA-RX receivers for 4K/60 4:4:4 HDR as well as AT-UHD-EX receivers for resolutions up to 4K60 4:2:0.
- 1U, half rack width enclosure with surface and rack mounting hardware included.



Specifications

Video			
Signal	Input - HDMI Output - HDMI / HDBaseT		
Copy Protection	HDCP 2.2		
Pixel Clock	600 MHz		
UHD/HD/SD	4096x2160 (DCI) @ 24/25/30/50/60 Hz 3840x2160 (UHD) @ 24/25/30/50/60 Hz 1920x1080p @ 23.97/24/25/29.97/30/50/60 Hz 1920x1080i @ 50/60 Hz 1280x720p @ 30/50/60 Hz		
VESA	2560×1600 @ 60 Hz (RB) 2048×1536 @ 60 Hz 2048×1200 @ 60 Hz 2048×1080 @ 60 Hz 1920×1200 @ 60 Hz (RB) 1920×1080 @ 60 Hz (RB) 1680×1050 @ 60 Hz 1600×900 @ 60 Hz 1440×900 @ 60 Hz 1400×1050 @ 60 Hz	1366×768 @ 60 Hz 1360×768 @ 60 Hz 1280×1024 @ 60 Hz 1280×800 @ 60 Hz 1280×768 @ 60 Hz 1280×720 @ 60 Hz 1024×768 @ 60 Hz 800×600 @ 60 Hz 640×480i @ 29.97/30 Hz	
Color Space	YUV, RGB		
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0		
Color Depth	8-bit, 10-bit, 12-bit		
HDR	Up to 4K HDR10 @ 60 Hz, 4K Hybrid-L Vision™ @ 60 Hz ⁽¹⁾	Up to 4K HDR10 @ 60 Hz, 4K Hybrid-Log Gamma (HLG) @ 60 Hz, and 4K Dolby [®] Vision™ @ 60 Hz ⁽¹⁾	
Audio			

Audio			
HDMI / HDBaseT	PCM 2.0	Dolby [®] Digital	DTS [®] Digital Surround [™]
Pass-Through Formats	LPCM 5.1	Dolby Digital Plus™	DTS-HD Master Audio [™]
	LPCM 7.1	Dolby TrueHD	DTS:X®
		Dolby Atmos®	
Bit Depth	Up to 24 bits		
Analog Audio			
Format	Stereo 2-Channel		
Balanced Output	+4 dBu nominal gain, +19 dB headroom		
Frequency Response	20 Hz to 20 kHz, ± 0.5 dB		
THD+N	< 0.006% at 20 Hz to 20 kHz		
SNR	> 105 dB at 1 kHz, zero clipping @ 0 dBFS, unweighted		
Sample Rate	32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz		

Ethernet	
Port	1 x RJ45
Standards and Protocols	HTTP, Telnet
Speeds	10/100 Mbps
Addressing	DHCP, Static – selectable through front panel, IP & RS-232 commands, and built-in web server



Port 5 x 5-pin captive screw Use Unit and external device control and configuration Baud Rates 2400, 4800, 9600, 19200, 38400, 57600, 115200 Data Flow Bidirectional IR Port 5 x 5-pin captive screw Use Pass-through from control system to sink device Pass-through from viewing location to source Frequency Range 30 kHz to 60 kHz CEC Ports 1 x HDMI OUT, Type A, 19-pin female; 4 x RJ45 (HDBaseT OUT) Through IP, RS-232, and built-in web server Resolution / Distance 4K/UHD - Feet / Meters 1080p - Feet / Meters HOMI IN/OUT 15 5 30 10 CAT5e/6 230 70 330 100 CAT5e/6 230 70 330 100 CAT6a/7 330 100 330 100 CAT6a/7 330 100 2 x momentary, tact-type Indiactors Buttons:	RS-232				
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	Idle Consumption (no PoE)	11.5 W			
	BTU/h				
External Power Supply 100 - 240 V AC, 50/60 Hz Output: 48 V / 2.08 A DC	External Power Supply				
		_ Sulput. 40 V / 2.00	1.00		



Dimensions (H x W x D)	Inches	Millimeters
Unit	1.73 x 8.64 x 10	44 x 219.5 x 254
Power Supply (AT-PS-48208-C)	1.3 x 2.24 x 5.35	33 x 57 x 136
Weight	Pounds	Kilograms
Device	3.75	1.7
Certification		
Device	CE, RoHS, FCC	
Power Supply	CE, FCC, UL, CUL, TUV-GS, CB, PSE, CCC	
Compliance		
NDAA-889	Yes	
ТАА	Yes	
Warranty		
Device	To view the product warranty, use the following link:	

Footnotes

(1) 4K Dolby® Vision™ @ 60 Hz is supported on systems capable of Low Latency Dolby Vision (LLDV) mode. All other 4K modes limited to 30 Hz.

https://atlona.com/warranty



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