

AT-HDR-EX-100CEA-RX
Specification Sheet

HDR HDBaseT Receiver

Description

The Atlona AT-HDR-EX-100CEA-RX is a HDBaseT™ receiver for 4K and high dynamic range (HDR) content. It supports extension of 4K/UHD video @ 60 Hz with 4:4:4 chroma sampling plus HDR data, multi-channel audio, Ethernet, control signals, and power up to 330 ft (100 m) over Category 6/6A cable. The HDR-EX-100CEA-RX is ideal for use with the AT-HDR-CAT-4ED distribution amplifier for passing 4K HDR signals to a display. A compact enclosure and remote power supplied by the transmitter means the receiver can be conveniently mounted in furniture, behind a display, or above a projector.

Key Features

- HDBaseT receiver for use with the AT-HDR-CAT-4ED distribution amplifier
- 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 input receives HDMI®, Ethernet, control signals, and power up to 330 feet (100 meters) for both 4K HDR and 1080p with Category 6/6A
- Extends bidirectional Ethernet data as well as RS-232 and IR control signals over HDBaseT
- Remotely powered by the AT-HDR-CAT-4ED over HDBaseT
- Compliant with HDCP 2.2, the latest specification for passing protected content between devices
- Multi-channel audio pass-through
- Front panel Power and Link status LEDs
- Front panel USB port for firmware updates
- Rear panel connections simplify wire management and save installation time
- Compact enclosure can be mounted in furniture, behind a display, or above a projector

Specifications

Video	
Signal	Input: HDBaseT Output: HDMI
Copy Protection	HDCP 2.2
Pixel Clock	600 MHz
UHD / HD / SD	4096 × 2160 @ 60, 50, 30, 25, 24 Hz 3840 × 2160 @ 60, 50, 30, 25, 24 Hz 1920 × 1080p @ 60, 59.94, 50, 30, 29.97, 25, 24, 23.98 Hz 1920 × 1080i @ 30, 29.97, 25 Hz 720p @ 60, 59.94, 50 Hz 576p @ 50 Hz; 576i @ 25 Hz 480p @ 60, 59.94 Hz; 480i @ 30 Hz
VESA (all @ 60 Hz unless noted)	2560 × 2048, 2560 × 1600, 2048 × 1536, 1920 × 1200, 1680 × 1050, 1600 × 1200, 1600 × 900, 1440 × 900, 1400 × 1050, 1366 × 768, 1360 × 768, 1280 × 1024, 1280 × 800, 1280 × 768, 1152 × 768, 1024 × 768, 800 × 600, 640 × 480
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-Log Gamma (HLG) @ 60 Hz, and 4K Dolby® Vision™ @ 60 Hz (1)

Audio	
HDMI / HDBaseT Pass-Through Formats	PCM 2.0, LPCM 5.1, LPCM 7.1, Dolby® Digital, Dolby Digital Plus™, Dolby TrueHD, Dolby Atmos®, DTS® Digital Surround™, DTS-HD Master Audio™, DTS:X®
Bit Depth	Up to 24-bit
Sample Rate	32, 44.1, 48, 88.2, 96, 176.4, 192 kHz

Control	
RS-232	Pass-through, up to 115200 baud
IR	Pass-through, 30 kHz to 60 kHz
CEC	Pass-through

Cable / Resolution	4K/UHD	1080p
HDMI OUT	15 ft (5 m)	30 ft (10 m)
Cat 5e	295 ft (90 m)	330 ft (100 m)
Cat 6 / 6a / 7	330 ft (100 m)	330 ft (100 m)

Indicators	
POWER	1 × LED, green
LINK	1 × LED, yellow

Connectors	
HDMI OUT	1 × Type A, 19-pin female
HDBaseT IN	1 × RJ45
OPTICAL IN	1 × TOSLINK™
RS-232 / IR	1 × 6-pin captive screw
UTILITY	1 × Mini-USB
LAN	1 × RJ45

Environmental	Fahrenheit	Celsius
Operating Temperature	+32 to +122 °F	0 to +50 °C
Storage Temperature	-4 to +140 °F	-20 to +60 °C
Operating Humidity (RH)	20% to 90%, non-condensing	

Power	
Consumption	10.4 W
BTU/h	35.5
PoE	Powered by compatible 48 V transmitters

Dimensions (H × W × D)	Inches	Millimeters
Device	1.02 × 5.74 × 3.81	26 × 146 × 97

Weight	Pounds	Kilograms
Device	0.873	0.396

Certifications	
Device	CE, FCC

Compliance	
NDAA-889	Yes
TAA	Yes

Warranty	
Device	To view the product warranty, visit: hallresearch.com/warranty

(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.
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