Introduction
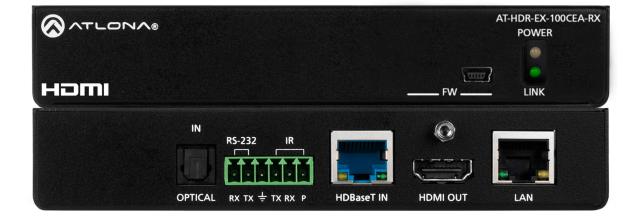
The Atlona AT-HDR-EX-100CEA-RX is a HDBaseT™ receiver for 4K and high dynamic range (HDR) content. It supports extension of 4K/UHD video @ 60 Hz with 4:4:4 chroma sampling plus HDR data, multi-channel audio, Ethernet, control signals, and power up to 330 ft. (100 m) over Category 6/6A cable. The HDR-EX-100CEA-RX 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	600MHz
UHD/HD/SD	4096x2160@60/50/30/25/24Hz 720p@60/59.94/50Hz 3840×2160@60/50/30/25/24Hz 576p@50Hz 1920x1080p@60/59.9/50/30/29.97/25/ 576i@25Hz 24/23.98Hz 480p@60/59.96Hz 1920x1080i@30/29.97/25Hz 480i@30Hz
VESA All resolutions are 60Hz	2560×2048 1366×768 2560×1600 1360×768 2048×1536 1280×1024 1920×1200 1280×800 1680×1050 1280×768 1600×1200 1152×768 1600×900 1024×768 1440×900 800×600 1400×1050 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	4K HDR10 and Hybrid-Log Gamma (HLG) @ 60 Hz, Dolby® Vision™ @ 30 Hz

Audio			
HDMI 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 bits		
Sample Rate	32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz		

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

Resolution / Distance	4K/UHD - Feet / Meters		1080p - Feet / Meters	
HDMI OUT	15	5	30	10
CAT5e	295	90	330	100
CAT6/6a/7	330	100	330	100

Buttons and Indicators	
Indicators: POWER LINK	 1 x LED, green 1 x LED, yellow

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

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

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

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

Weight	Pounds	Kilograms
Device	0.873	0.396

Certification		
Device	CE, FCC	

Compliance	
NDAA-899	Yes

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HIGH-DEFINITION MULTIMEDIA INTERFACE

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