



Introduction

The Atлона 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 3840x2160@60/50/30/25/24Hz 1920x1080p@60/59.9/50/30/29.97/25/ 24/23.98Hz 1920x1080i@30/29.97/25Hz	720p@60/59.94/50Hz 576p@50Hz 576i@25Hz 480p@60/59.96Hz 480i@30Hz
VESA All resolutions are 60Hz	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	
HDR	Up to 4K HDR10 @ 60 Hz, 4K Hybrid-Log Gamma (HLG) @ 60 Hz, and 4K Dolby® Vision™ @ 60 Hz ⁽¹⁾	

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-889	Yes
TAA	Yes

Warranty	
Device	To view the product warranty, use the following link: https://atlon.com/warranty

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.

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