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Introduction

The Atlona AT-HDR-EX-70C-RX is a HDBaseT™ to HDMI® 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, control signals, and power up to 130 ft. (40 m) or 1080p up to 230 ft. (70 m) over Category 6/6A cable. The AT-HDR-EX-70C-RX is ideal for use with the AT-HDR-CAT-2, AT-HDR-CAT-4, and AT-HDR-CAT-8 distribution amplifiers 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-2, AT-HDR-CAT-4, and AT-HDR-CAT-8 distribution amplifiers
- 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, control signals, and power up to 130 feet (40 meters) for 4K HDR or 230 feet (70 meters) for 1080p with Category 6/6A
- Extends bidirectional RS-232 and IR control signals over HDBaseT
- Remotely powered by the AT-HDR-CAT distribution amplifiers 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	2560×1600 1280×800 2048×1536 1366×768 1920×1200 1360×768 1680×1050 1152×864 1600×1200 1024×768 1440×900 800×600 1400×1050 640×480 1280×1024
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 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 IN/OUT	15	5	30	10
CAT5e	115	35	200	60
CAT6/6a/7	130	40	230	70

Buttons and Indicators	
Function Indicators: Power Link	 1 - LED, green 1 - LED, yellow

Connectors	
HDMI OUT	1 - Type A, 19-pin female
HDBaseT IN	1 - RJ45, female
FW - Firmware	1 - Mini-A USB
RS-232	1 - 3-pin captive screw connector
IR	1 - 5-pin captive screw connector

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

Power	
Consumption	7.95 W
BTU/h	27.2
PoE	Powered by compatible 48V transmitters

Dimensions (H x W x D)	Inches	Millimeters
Unit	1.02 x 4.29 x 5.00	26 x 109 x 127

Weight	Pounds	Kilograms
Unit	0.85	0.39

Certification		
Device	CE, FCC, UKCA	

Warranty		
Device	10 years	

Compliance	
NDAA-889	Yes
TAA	Yes

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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