



Introduction

The Atлона 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 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 | 2560x1600 2048x1536 1920x1200 1680x1050 1600x1200 1440x900 1400x1050 1280x1024 | 1280x800 1366x768 1360x768 1152x864 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 | 4K HDR10 and Hybrid-Log Gamma (HLG) @ 60 Hz, Dolby® Vision™ @ 30 Hz | |

| 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 | 1 - LED, green |
| Link | 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 |

Copyright, Trademark, and Registration

© 2023 Atlona Inc. All rights reserved. "Atlona" and the Atlona logo are registered trademarks of Atlona Inc. Pricing, specifications and availability subject to change without notice. Actual products, product images, and online product images may vary from images shown here.



The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI licensing Administrator, Inc.



Dolby, Dolby Atmos, and the double-D symbol are registered trademarks of Dolby Laboratories Licensing Corporation.



For DTS patents, see <http://patents.dts.com>. Manufactured under license from DTS, Inc. DTS, the Symbol, DTS and the Symbol together, and Digital Surround are registered trademarks and/or trademarks of DTS, Inc. in the United States and/or other countries. © DTS, Inc. All Rights Reserved.

All other trademark(s), copyright(s), and registered technologies mentioned in this document are the properties of their respective owner(s).