



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 | 10 years |

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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