



Introduction

The Atlona AT-OPUS-RX is an HDBaseT receiver for high dynamic range (HDR) formats, designed for use with the Opus™ Series of HDMI to HDBaseT matrix switchers. The OPUS-RX is HDCP 2.2 compliant and supports 4K/UHD video @ 60 Hz with 4:4:4 chroma sampling, as well as HDMI data rates up to 18 Gbps. It receives HDMI, Ethernet pass-through, and bidirectional IR and RS-232 control signals up to 330 feet (100 meters) over CAT6a/7 cable. Visually lossless VESA Display Stream Compression (DSC) enables HDR and 4K/60 4:4:4 video signal extension over HDBaseT with no latency. For additional integration convenience, the receiver is remotely powered by an Opus Series matrix switcher through Power over Ethernet (PoE). The OPUS-RX can transmit digital audio from a television back to an AV receiver through a dedicated HDBaseT audio return path to the matrix switcher.

Applications

- **Residential installations**
An Opus system of matrix switchers and OPUS-RX receivers is ideal as the AV distribution centerpiece for whole-house video and audio.
- **Commercial applications**
Opus systems are also ideal for a variety of light commercial, education, and corporate applications requiring compatibility with new and forthcoming devices for 4K presentations.

Key Features

4K/UHD capability @ 60 Hz with 4:4:4 chroma sampling, plus support for HDR formats

- Ideal for with new and emerging 4K/UHD and HDR-capable sources and displays. Supports HDR10 @ 60 Hz and Dolby Vision @ 30 Hz, as well as HLG.
- Fully supports video resolutions, audio formats, and color space formats in the HDMI 2.0b specification.

HDCP 2.2 compliant

- Adheres to latest specification for High-bandwidth Digital Content Protection.
- Allows protected content stream to pass between authenticated devices.

HDBaseT receiver for HDMI, Ethernet, power, and control up to 330 feet (100 meters)

- Receives HDMI up to 330 feet (100 meters) @ 4K HDR using CAT6a/7 cable.
- Uses easy-to-integrate category cable for low-cost, reliable system installation.

Remotely powered by Opus matrix switcher via PoE (Power over Ethernet)

- Power for receiver is supplied by an Opus Series matrix switcher over HDBaseT.
- Allows convenient receiver installation at a display or projector without the need for local AC power.

Extends RS-232, IR, and Ethernet control signals over HDBaseT

- Bidirectional extension of RS-232, IR, and Ethernet control signals.
- Streamlines integration of control for displays.

Visually lossless VESA Display Stream Compression

- Enables HDBaseT transmission of HDMI up to 18 Gbps using extremely light video compression.
- Innovative signal extension solution delivers very high, pristine image quality.

Delivers return audio from a TV via dedicated HDBaseT audio return path

- Provides a return audio pathway from a television, via TOSLINK digital audio interface, back to the Opus matrix switcher over HDBaseT.
- Easy and convenient integration of television audio for over-the-air broadcasts, OTT (over-the-top) media services, and more.

Integrated HDBaseT link status monitoring

- Continuously monitors integrity of the HDBaseT cable link between the Opus matrix switcher and receiver. Web GUI provides real-time link status, plus detailed HDBaseT and HDMI signal information.
- Quick, easy verification or troubleshooting of RJ-45 termination or twisted pair cable quality.

Specifications

Video		
Signal	Input - HDMI Output - HDMI	
Copy Protection	up to 2.2	
Bandwidth	18 Gbps	
UHD/HD/SD	4096x2160@60/50/30/25/24Hz 720p@60/59.94/50Hz 3840x2160@60/50/30/25/24Hz 576p@50Hz 2048x1080p 576i@25Hz 1920x1080p@60/59.9/50/30/29.97/25/ 480p@60/59.96Hz 24/23.98Hz 480i@30Hz 1920x1080i@30/29.97/25Hz	
VESA All resolutions are 60Hz	2560x2048 1366x768 2560x1600 1360x768 2048x1536 1280x1024 1920x1200 1280x800 1680x1050 1280x768 1600x1200 1152x864 1600x900 1024x768 1440x900 800x600 1400x1050	
Color Space	YUV, RGB	
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0	
Color Depth	8-bit, 10-bit, 12-bit	
HDR	HDR10, Hybrid-Log Gamma (HLG) @ 60Hz, and Dolby® Vision™ @ 30Hz	

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®
TOSLINK	PCM 2.0	Dolby Digital	DTS Digital Surround
Sample Rate	32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz		
Bit Rate	24 Mbits/s max		

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

Indicators	
PWR	1 - LED, green
LINK	1 - LED, yellow
HDBaseT LINK	1 - LED, red
HDBaseT PoE	1 - LED, green

Connectors	
HDBaseT IN	1 - RJ45
HDMI OUT	1 - Type A, 19-pin female
TOSLINK IN/OUT	1 - S/PDIF, Optical fiber connector
LAN	1 - RJ45
DEBUG	1 - Mini-USB, 5-pin female
RS-232	1 - 3-pin captive screw
IR IN/OUT	1 - 2-pin captive screw

Temperature	Fahrenheit	Celsius
Operating	32 to 104	0 to 40
Storage	-40 to 158	-40 to 70
Humidity (RH)	20% to 90%, non-condensing	

Power	
Consumption	6.6W over PoE
BTU/h	22.5

Dimensions (H x W x D)	Inches	Millimeters
Unit	1.02 x 6.86 x 3.51	26 x 174.2 x 89.16
With Ears	1.02 x 1 x 3.51	26 x 1 x 89.16

Weight	Pounds	Kilograms
Device	0.99	0.45

Certification	
Device	CE, FCC, UL

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

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