



Introduction

The Atлона **AT-UHD-EX-70C-RX** is an HDBaseT receiver for AV signals up to 230 feet (70 meters) over category cable with RS-232 and IR control pass-through, plus Power over Ethernet capability. It is compatible with video signals up to 4K/UHD @ 60Hz with embedded multi-channel audio and remote 48V Power over Ethernet. The AT-UHD-EX-70C-RX is HDCP 2.2 compliant and supports EDID communication. The receiver features a quarter rack width metal enclosure for easy installation with rear panel I/O ports for uncluttered wire management. Use with an optional AT-IR-CS-RX IR receiver cable to capture IR remote commands for AV system control.

This receiver is used in commercial and applications that call for an HDBaseT receiver with a compact form factor that allows for simple mounting behind displays and at projectors. These applications will not require an AC outlet for the receiver, since the receiver is powered by an Atлона switching product. This receiver will also be used to simplify control of the AV system by working with 12 volt-based IR receivers as well as passing through RS-232 commands.

Key Features

4K/UHD capability

- Compatible with Ultra High Definition sources and displays.
- Full support of 4K/UHD streaming services and playback devices.

HDCP 2.2 compliant

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

Supports 4K HDR10 @ 24 Hz

- Extends 4K HDR10 @ 24 Hz (4:2:0 chroma subsampling, 10-bit color).

Remote-powered receiver

- Industry standard IEEE 802.3af PoE for receiver is supplied by transmitter over HDBaseT.
- Saves time and integration costs.

Bidirectional extension of both RS-232 and IR control commands

- Control signals travel over HDBaseT link for maximum control system flexibility.
- Eliminates multiple cable runs between source, control system, and display.

Long distance HDMI extension

- Receives HDMI signals up to 230 ft (70m) @ 1080P and 130 ft (40m) @ 4K/UHD using CAT6a/7 cable.
- Uses easy-to-integrate category cable for low-cost, reliable system installation.

Flexible Bidirectional IR control capabilities

- IR Input designed to work with 12V IR receivers for source control.
- Saves control systems costs.

Rear panel I/O connectors

- Placement of ports on rear panel simplifies wire management.
- Saves installation time and eliminates clutter.

Multi-channel audio compliant

- Supports PCM, Dolby Digital, Dolby Digital Plus™, Dolby TrueHD, Dolby Atmos®, DTS Digital Surround™, DTS-HD Master Audio™, DTS:X™.
- Allows any multi-channel audio stream to be used within a professional audio system.

Field updatable firmware

- Front panel USB port provides an easy means for kit upgrades.
- Ensures long term system return on investment.

Key Features (continued)

Front panel Power and Link status LEDs

- LED indicators provide power and HDBaseT link status information.
- Provides easy setup and troubleshooting.

Low-profile, 1 inch (25 mm) high quarter rack-width enclosure

- Easy installation into confined spaces behind displays and above projectors.
- Keeps devices out-of-sight when placed in public spaces.

Specifications

Video		
Signal	HDMI	
Copy Protection	HDCP 1.4/2.2	
Pixel Clock	300 MHz	
UHD/HD/SD	4096x2160 @ 24/25/30/50 ⁽¹⁾ /60 ⁽¹⁾ Hz 3840x2160 @ 24/25/30/50 ⁽¹⁾ /60 ⁽¹⁾ Hz 2048x1080p @ 60 Hz 1920x1080p @ 60/59.94/50/30/29.97/25 /24/23.98 Hz 1080i@60/59.94/50 Hz	1280x720@60/59.94/50 Hz 720x576p 720x576i 640x480p 640x480i
VESA All resolutions are 60 Hz	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	4K HDR10 @ 24Hz, 4:2:0 chroma subsampling, 10-bit color	

Audio			
HDMI / HDBaseT Pass-Through Formats	LPCM 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		

Resolution / Distance	4K/UHD - Feet / Meters		1080p - Feet / Meters	
HDMI OUT	15	5	30	10
CAT5e/6	115	35	200	60
CAT6a/7	130	40	230	70

Control	
CEC	Pass through

Buttons and Indicators	
Function Indicators:	
POWER	1 - LED, green
LINK	1 - LED, yellow

Specifications (continued)

Connectors	
HDMI OUT	1 - Type A, 19-pin female
HDBaseT IN	1 - RJ45, female
FW	1 - Micro-A USB
RS-232	1 - 3-pin captive screw
IR IN / IR OUT	1 - 4-pin captive screw

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

Power	
Consumption	7.19 W (10.89 W when paired w/AT-UHD-EX-70C-TX)
Supply (from TX)	802.3af

Dimensions (H x W x D)	Inches	Millimeters
Unit	0.93 x 4.2 x 2.95	23.7 x 106.8 x 75

Weight	Pounds	Kilograms
Unit	0.55	0.25

Certification	
Device	CE, FCC

Compliance	
NDAA-899	Yes
TAA	Yes

Warranty	
3 years	View the full warranty information here: https://atlon.com/warranty

Footnotes

(1) 4096x2160@50/60Hz & 3840x2160@50/60Hz supported @ chroma subsampling 4:2:0 8-bit only

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