



Introduction

The Atlona **AT-UHD-EX-70C-TX** is an HDBaseT transmitter for HDMI transmission up to 230 feet (70 meters) over category cable with RS-232 and IR control pass-through. It transmits video signals up to 4K/UHD @ 60 Hz with 4:2:0 chroma subsampling, plus embedded multi-channel audio. The AT-UHD-EX-70C-TX is HDCP 2.2 compliant and supports EDID communication. This HDBaseT transmitter is externally powered by the included power supply, making it ideal for extending AV and control directly to a projector with an HDBaseT input.

The AT-UHD-EX-70C-TX provides a value-oriented integration solution for simple point-to-point signal extension to a display, or expanding the scope of an AV system design with remote input connectivity. It features a quarter rack width metal enclosure and includes surface mounting brackets for easy under-table, furniture, or on-wall installation.

Applications

- Extending AV and control to HDBaseT-equipped projectors and flat-panel displays.
- Integrating a remote source or HDMI connection point into an Atlona switcher with an HDBaseT input.
- Installations in which UHD-EX Series transmitters are to be used with third-party HDBaseT devices.

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).

Local AC powering

- Includes external power supply – ideal for point-to-point installations with an HDBaseT-equipped projector.
- IEEE 802.3af PoE Power Sourcing Equipment (PSE) – can supply power over HDBaseT to a remote receiver, such as the AT-UHD-EX-70C-RX.
- Saves time and integration costs.

Long distance HDBaseT extension

- Transmits AV and control up to 230 feet (70 meters) @ 1080p or 130 feet (40 meters) @ 4K/UHD using CAT6a/7 cable.
- Uses easy-to-integrate category cable for low-cost, reliable system installation.

Extends bidirectional RS-232 and IR control signals

- Control signals travel over HDBaseT link to device for maximum control system flexibility.
- Simplifies integration of 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.

Key Features (continued)

Field updatable firmware

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

Front panel Power and Link status LEDs

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

Power chaining

- Included power supply provides ample power for up to three Atлона HDBaseT extenders.
- Four Atлона HDBaseT extenders can be powered using the optional AT-PS-483125-C power supply.
- Reduces clutter from multiple power supplies in equipment racks.

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.

3-year limited product warranty

- Ensures long-term product reliability and performance in residential and commercial systems.
- Specify, purchase, and install with confidence.

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 IN	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 IN	1 - Type A, 19-pin female
HDBaseT OUT	1 - RJ45, female
FW	1 - Micro-A USB
RS-232	1 - 3-pin captive screw
IR IN / IR OUT	1 - 4-pin captive screw
DC 48V	1 - 2-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	10.89 W
Supply	Input: 100 - 220 V AC, 50/60 Hz Output: DC 48V / 0.83A

Dimensions (H x W x D)	Inches	Millimeters
Unit	0.93 x 4.2 x 2.95	23.7 x 106.8 x 75
Power Supply (AT-PS-483125-C)	1.42 x 1.81 x 4.41	36 x 46 x 112

Weight	Pounds	Kilograms
Unit	0.55	0.25

Certification	
Device	CE, FCC
Power Supply	CE, FCC, RoHS, cULus, RCM, CCC

Compliance	
NDAA-899	Yes
TAA	Yes

Warranty	
Device	10-year limited

Footnotes

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

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