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 Atlona HDBaseT extenders.

- Four Atlona 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.

Specifications

Video	
Signal	HDMI
Copy Protection	HDCP 1.4/2.2
PIxel Clock	300 MHz
UHD/HD/SD	4096×2160 @ 24/25/30/50[1]/60[1] Hz 1280x720@60/59.94/50 Hz 3840×2160 @ 24/25/30/50[1]/60[1] Hz 720x576p 2048x1080p @ 60 Hz 720x576i 1920x1080p @ 60/59.94/50/30/29.97/25 640x480p /24/23.98 Hz 640x480i 1080i@60/59.94/50 Hz
VESA All resolutions are 60 Hz	2560×2048 1366×768 2560×1600 1360×768 2048×1536 1280×1024 1920×1200 1280×800 1680×1050 1280×768 1600×1200 1152×768 1600×900 1024×768 1440×900 800×600 1400×1050 640×480
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 LINK	 1 - LED, green 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)   4096×2160@50/60Hz & 3840×2160@50/60Hz supported @ chroma subsampling 4:2:0 8-bit only

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