



Introduction

The Atlona **AT-HDR-EX-70C-TX** is a HDBaseT™ transmitter 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, control signals, and power up to 130 ft (40 m) or 1080p up to 230 ft (70 m) over Category 6/6A cable.

The HDR-EX-70C-TX is ideal for use with the AT-HDR-EX-70C-RX receiver for transmitting 4K HDR in point-to-point applications. It can also be used with the AT-UHD-CLSO-824 and AT-UHD-SW-5000ED for transmitting 4K/UHD @ 60 Hz 4:2:0 signals to the switchers from a remote source.

Key Features

- HDBaseT transmitter for use with the AT-HDR-EX-70C-RX receiver.
- 4K/UHD capability @ 60Hz 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 output transmits AV, control signals, and power up to 130 feet (40 meters) for 4K HDR or 230 feet (70 meters) for 1080p with Category 6/6A.
- Extends bidirectional RS-232 and IR control signals over HDBaseT.
- Provides remote power over HDBaseT to compatible receivers such as the AT-HDR-EX-70C-RX.
- Compliant with HDCP 2.2, the latest specification for passing protected content between devices.
- Multi-channel audio pass-through.
- HDBaseT link status testing allows verification of cable, termination, and link quality for more reliable installations.
- 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, a lectern, or an equipment rack.
- Compatible with AT-UHD-CLSO-824 and AT-UHD-SW-5000ED switchers for transmission of 4K/UHD @ 60Hz 4:2:0 signals

Specifications

Video		
Signal	Input: HDMI Output: HDBaseT	
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	2560x1600 2048x1536 1920x1200 1680x1050 1600x1200 1440x900 1400x1050 1280x1024	1280x800 1366x768 1360x768 1152x864 1024x768 800x600 640x480
VESA 21:9 ⁽¹⁾	2560x1080 @ 30 Hz 4:4:4 2560x1080 @ 60 Hz 4:4:4 3440x1440 @ 30 Hz 4:4:4	3440x1440 @ 50 Hz 4:4:4 3840x1600 @ 30 Hz 4:4:4
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 @ 60Hz, 4K Hybrid-Log Gamma (HLG) @ 60Hz, and 4K Dolby® Vision™ @ 60Hz ⁽²⁾	

Audio			
HDMI / HDBaseT 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-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/OUT	15	5	30	10
CAT5e	115	35	200	60
CAT6/6a/7	130	40	230	70

Control	
RS-232	Pass through, up to 115200 baud
IR	Pass through, 30kHz to 60kHz

Buttons and Indicators	
TEST button	1 - momentary, tact-type
Function Indicators:	
Power	1 - LED, green
Link	1 - LED, yellow
Test	1 - LED, multi-colored

Connectors	
HDMI IN	1 - Type A, 19-pin female
HDBaseT OUT	1 - RJ45, female
FW - Firmware	1 - Micro-A USB
PWR	1 - 2-pin 48V captive screw connector
RS-232	1 - 3-pin captive screw connector
IR	1 - 4-pin captive screw connector

Temperature	Fahrenheit	Celsius
Operating	32 to 122	0 to 50
Storage	-4 to 140	-20 to 60
Humidity (RH)	20% to 90%, non-condensing	

Power	
Consumption	6.07W
BTU/h	20.7
Input	100 - 240 V AC, 50/60 Hz
Supply	48 V DC, 0.83 A

Dimensions (H x W x D)	Inches	Millimeters
Device	1.02 x 4.29 x 5.00	26 x 109 x 127
Power Supply (AT-PS-48083-C)	1.42 x 1.81 x 4.41	36 x 46 x 112

Weight	Pounds	Kilograms
Device	0.85	0.39

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

Compliance	
NDA-889	Yes
TAA	Yes

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

Footnotes

(1) The following UltraWide Quad HD resolutions are NOT supported:

- 3440x1440P@50 10 bit 4:4:4
- 3440x1440P@60 10 bit 4:4:4
- 3840x1600P@60 8 bit 4:4:4.

(2) 4K Dolby® Vision™ @ 60Hz is supported on systems capable of Low Latency Dolby Vision (LLDV) mode. All other 4K modes limited to 30Hz.

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