



## Introduction

The Atlona AT-AVA-EX70C-KIT is an Avance™ Series HDBaseT extender kit that supports control pass-through and remote power capability. The kit transmits 4K/UHD 60Hz 4:2:0 video up to 130 feet (40 meters) or 1080P 60Hz 4:4:4 video up to 230 feet (70 meters). In addition to video with embedded multi-channel audio, RS-232 and IR control signals, and remote power from the transmitter to the receiver are supported on the single CAT6A/7 cable. EDID filtering and clock stretching ensure video transmission integrity and stable connections. Integrated HDBaseT link test allows quick verification of cable, termination, and link quality. The AT-AVA-EX70C-KIT includes both transmitter and receiver endpoints. Compact enclosures and included brackets allow the devices to be surface mounted in furniture or behind a display. The AT-AVA-EX70C-KIT delivers a cost-effective solution for extension of video, audio, control, and receiver power at resolutions up to 4K/UHD.

## Applications

- **Conference room** - Transmit 4K/UHD content from a laptop or room PC to the flat panel display at the front of the room.
- **Classroom** - Transmit 4K/UHD content from an instructor computer to a projector or flat panel display.
- **Residential** - Advanced integration features ensure transmission of content to a remote TV at resolutions up to 4K/UHD

## Key Features

### Long distance HDMI extension

- Transmitting 4K/UHD video up to 130 feet (40 meters) or 1080P video up to 230 feet (70 meters).
- Reliably send HDMI signals further using cost effective CAT-type twisted pair cable.

### 4K/UHD capable

- Transmits high resolution video up to and including 4K/UHD @ 30Hz 4:4:4 8 bit, 4K/UHD @ 60Hz 4:2:0 8 bit, and 4K/UHD @ 30Hz 4:2:2 10bit.
- Ensures compatibility with common high resolutions source and display devices.

### Extends control signals over HDBaseT

- Includes bidirectional RS-232 and IR on the single cable connection between transmitter and receiver.
- Eliminates multiple cable runs between source, control system, and display.

### Integrated HDBaseT Link Testing

- Verifies cable, termination, and link quality.
- Quickly diagnose cable related issues and ensure reliable performance for all installations.

### Remote Power

- Transmitter provides remote power to the receiver.
- Increases mounting flexibility for the receiver because no local power supply is required.

### HDMI clock stretching

- Prevents loss of video due to source clock impairments.
- Improve interoperability with legacy HDMI sources and low quality HDMI video sources.

### EDID filtering

- Prevents transmission of unsupported resolutions with large bandwidths.
- Increases integrity of video transmission.

### Multi-channel audio compliant

- Supports PCM, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos, DTS 5.1, DTS-HD Master Audio, DTS:X.
- Allows any multi-channel audio stream to be used within a professional audio system.

### Compact enclosure

- One inch high, quarter rack-width enclosures can be surface mounted in furniture, on a wall behind a display, or installed in a rack.
- Allows devices to be hidden from view.

### Compatible with locking HDMI connectors for secure cable connections

## Specifications

Video		
Signal	HDMI	
Copy Protection	HDCP 1.4/2.2	
Pixel Clock	300MHz	
UHD/HD/SD	4096x2160@60 <sup>(1)</sup> /50 <sup>(1)</sup> /30/25/24Hz 3840x2160@60 <sup>(1)</sup> /50 <sup>(1)</sup> /30/25/24Hz 1080p@60/59.9/50/30/29.97/25/ 24/23.98Hz 1080i@30/29.97/25Hz	720p@60/59.94/50Hz 576p@50Hz 576i@25Hz 480p@60/59.96Hz 480i@30Hz
VESA	2560x1600 2048x1536 1920x1200 1680x1050 1600x1200 1440x900 1400x1050 1280x1024	1280x800 1366x768 1360x768 1152x864 1024x768 800x600 640x480
All resolutions are 60Hz		
Color Space	YUV, RGB	
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0	
Color Depth	8-bit, 10-bit, 12-bit	

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/6	115	35	200	60
CAT6a/7	130	40	230	70

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

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

Connectors	
HDMI IN (TX)	1 - Type A, 19-pin female
HDBaseT OUT (TX)	1 - RJ45, female
HDMI OUT (RX)	1 - Type A, 19-pin female
HDBaseT IN (RX)	1 - RJ45, female
FW - Firmware (RX and TX)	1 - Micro-A USB
PWR (TX)	1 - 2-pin 48V captive screw connector
RS-232 (RX and TX)	1 - 3-pin captive screw connector
IR (RX and TX)	1 - 4-pin captive screw connector 1 - 5-pin captive screw connector

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	7.71 W
Supply	Input: AC100~240V 50/60Hz 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	1.3 x 2.05 x 4.76	33 x 52 x 121

Weight	Pounds	Kilograms
TX	0.55	0.25
RX	0.55	0.25

Certification	
Device	CE, FCC, CB (Safety)
Supply	CE, FCC, cULus, RoHS

## Accessories

SKU	Description
AT-LC-H2H-1M	LinkConnect HDMI to HDMI 1 Meter Cable
AT-LC-H2H-2M	LinkConnect HDMI to HDMI 2 Meter Cable
AT-LC-H2H-3M	LinkConnect HDMI to HDMI 3 Meter Cable

## Footnotes

(1) 4K/UHD @ 50/60Hz only supports 4:2:0 over HDBaseT.

## Copyright, Trademark, and Registration

© 2021 Atlona Inc. All rights reserved. "Atlona" and the Atlona logo are registered trademarks of Atlona Inc. Pricing, specifications and availability subject to change without notice. Actual products, product images, and online product images may vary from images shown here.



The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI licensing Administrator, Inc.



Dolby, Dolby Atmos, and the double-D symbol are registered trademarks of Dolby Laboratories Licensing Corporation.



For DTS patents, see <http://patents.dts.com>. Manufactured under license from DTS, Inc. DTS, the Symbol, DTS and the Symbol together, and Digital Surround are registered trademarks and/or trademarks of DTS, Inc. in the United States and/or other countries. © DTS, Inc. All Rights Reserved.

All other trademark(s), copyright(s), and registered technologies mentioned in this document are the properties of their respective owner(s).