



## Introduction

The Atлона AT-UHD-EX-70-2PS is an HDBaseT™ transmitter/receiver kit for HDMI transmission up to 230 feet (70 meters) over category cable using locally-powered endpoints. The kit provides an economical means of transmitting video signals up to 4K/UHD @ 60Hz with embedded multi-channel audio. The kit is HDCP 2.2 compliant and supports EDID communication. Both transmitter and receiver feature quarter rack width metal enclosures for easy rack mounting with rear panel I/O ports for uncluttered wire management.

This product was designed with the latest extender technology including long distance HDBaseT signal transmission, 4K/UHD capability, configuration-free set-up, and field-updateable firmware while maintaining an affordable price point. The AT-UHD EX-70-2PS offers these capabilities and more with the latest content protection for guaranteed pass-through of encrypted high definition content.

The AT-UHD-EX-70-2PS is ideal for use in residential or commercial point to point applications that require HDBaseT signal transmission over greater distances than HDMI can support. The kit can be used with the H2H matrix switcher series or HDDA distribution amplifier series for economical, long distance AV signal extension without PoE capability or control signal extension requirements.

## 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 authenticated devices.

### Long distance HDMI extension

- Transmits 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.

### 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.

### 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.

### Award-winning 10 year limited product warranty

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

## Specifications

| Video              |  |
|--------------------|--|
| HDMI Specification | HDMI 2.0 <sup>(1)</sup>  |
| HDCP               | 1.4, 2.2   |
| UHD/HD/SD          | 4096x2160 (DCI) @ 24/25/30/60 <sup>(2)</sup> Hz      720x576p @ 50 Hz<br>3840x2160 (UHD) @ 24/25/30/60 <sup>(2)</sup> Hz      720x576i @ 50 Hz<br>1920x1080p @ 23.98/24/25/29.97/30/50      720x480p @ 60 Hz<br>/59.94/60 Hz      640x480p @ 60 Hz<br>1920x1080i @ 50/59.94/60 Hz<br>1280x720p @ 50/59.94/60 Hz  |
| VESA               | 2560x2048 @ 60 Hz      1366x768 @ 60 Hz<br>2560x1600 @ 60 Hz      1360x768 @ 60 Hz<br>2048x1536 @ 60 Hz      1280x1024 @ 60 Hz<br>1920x1200 @ 60 Hz      1280x800 @ 60 Hz<br>1680x1050 @ 60 Hz      1280x768 @ 60 Hz<br>1600x1200 @ 60 Hz      1152x768 @ 60 Hz<br>1600x900 @ 60 Hz      1024x768 @ 60 Hz<br>1440x900 @ 60 Hz      800x600 @ 60 Hz<br>1400x1050 @ 60 Hz      640x480 @ 60 Hz |
| Color Space        | YCbCr, RGB   |
| Chroma Subsampling | 4:4:4, 4:2:2, 4:2:0  |
| Color Depth        | 8-bit, 10-bit, 12-bit  |
| HDR <sup>(3)</sup> | 4K HDR10 @ 24Hz, 4:2:0 chroma subsampling, 10-bit color  |

| Audio                |  |   |  |
|----------------------|--|---|--|
| Pass-Through Formats | PCM 2Ch<br>LPCM 5.1<br>LPCM 7.1                                | Dolby® Digital<br>Dolby Digital Plus™<br>Dolby TrueHD<br>Dolby Atmos® | DTS® Digital Surround™<br>DTS-HD Master Audio™<br>DTS:X® |
| Sample Rate          | 32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz |   |  |
| Bit Rate             | 24 Mbits/s max   |   |  |

| Connectors and Indicators |                                   |
|---------------------------|-----------------------------------|
| HDMI IN (TX)              | 1 - Type A, 19-pin female         |
| HDMI OUT (RX)             | 1 - Type A, 19-pin female         |
| HDBaseT IN (RX)           | 1 -RJ45 (8P8C), 568-B termination |
| HDBaseT OUT (TX)          | 1 -RJ45 (8P8C), 568-B termination |
| FW (TX/RX)                | 1 - Mini USB Type-B, 5-pin female |
| DC 5V (TX)                | 2 - Locking connector             |
| LED (TX/RX)               | 1 - PWR, green<br>1 - LINK, amber |

| Resolution / Distance | 4K/UHD - Feet | 4K/UHD - Meters | 1080p - Feet | 1080p - Meters |
|-----------------------|---------------|-----------------|--------------|----------------|
| CAT5e/6               | 115           | 35              | 197          | 60             |
| CAT6a/7               | 130           | 40              | 230          | 70             |
| HDMI IN/OUT           | 15            | 5               | 30           | 10             |

| Signal             |           |
|--------------------|-----------|
| Maximum TMDS Clock | 300 MHz   |
| HDBaseT            | 10.2 Gbps |
| CEC                | 2.0       |

| Power                     |  |
|---------------------------|--|
| Total Power Consumption   | 6.3 W  |
| External Power (optional) | Input: 100 - 240 VAC, 50/60 Hz<br>Output: DC 5V / 1.2A |

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

| Dimensions (H x W x D) | Inches             | Millimeters    |
|------------------------|--------------------|----------------|
| Unit                   | 0.98 x 4.29 x 3    | 25 x 109 x 76  |
| Unit w/Ears            | 1.06 x 5.08 x 3    | 27 x 129 x 76  |
| Power Supply           | 1.22 x 1.97 x 3.17 | 31 x 50 x 80.6 |

| Weight | Pounds | Kilograms |
|--------|--------|-----------|
| TX     | 0.49   | 0.22      |
| RX     | 0.53   | 0.24      |

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

## Accessories

| Description                                | SKU                      |
|--|--------------------------|
| LinkConnect HDMI to HDMI Cable             | AT-LC-H2H-1M / 2M / 3M   |
| LinkConnect Mini DisplayPort to HDMI Cable | AT-LC-MDP2H-1M / 2M / 3M |
| Architectural Cable Access Enclosure       | AT-PKT-3H                |

## Footnotes

- (1) UHDp60 only supports 4:2:0.
- (2) 4096x2160 @ 50/60 Hz and 3840x2160 @ 50/60 Hz supports 4:2:0 8-bit chroma subsampling only.