

Two-Input Wallplate Switcher

for HDMI with HDBaseT™ Output





Introduction

The Atlona **AT-HDVS-210H-TX-WP** is a 2x1 switcher and HDBaseT transmitter with two HDMI inputs. It features a US one-gang, Decora-style wallplate form factor, and includes interchangeable black and white wallplates and faceplates. Video signals up to 4K/UHD @ 60 Hz with 4:2:0 chroma subsampling, plus embedded audio and control can be transmitted up to 330 feet (100 meters). The HDVS-210H-TX-WP is HDCP 2.2 compliant. It is designed for use with select HDVS Series receivers and scalers, as well as the AT-UHD-EX-100CE-RX-PSE receiver, and Atlona switchers and matrix switchers with HDBaseT inputs. This transmitter can serve as an integral component of a fully automated AV system, with the convenience of automatic input selection and display control. It is remotely powered by the UHD-EX-100CE-RX-PSE or other Atlona HDBaseT-equipped devices through Power over Ethernet (PoE).

Applications

- Complete system applications
 - The HDVS-210H-TX-WP and a compatible HDBaseT receiver provide a compact, yet comprehensive and cost-effective integration solution.
- Larger system applications
 - The HDVS-210H-TX-WP is ideal for extending AV connectivity from a central equipment rack to lecterns as well as remote wall and floor box locations, where presenters can easily access the system.

AT-HDVS-210H-TX-WP



Key Features

US one-gang enclosure for Decora-style wallplate openings – interchangeable black or white trim kits

- Allows inconspicuous installation on a wall, in furniture, or in a floor box. Includes black and white wallplates and faceplates.
- Meets end user requirements for conveniently accessible yet discreet AV connectivity.

2×1 HDBaseT switcher with HDMI inputs

- Conveniently accepts two HDMI sources in a single-gang enclosure.
- Minimizes wall or surface space for a discreet installation.

HDCP 2.2 compliant

- Adheres to latest specification for High-bandwidth Digital Content Protection.
- Allows protected content stream to pass between authenticated devices.

HDBaseT transmitter for AV, power, and control up to 330 feet (100 meters)

- Uses easy-to-integrate category cable for low-cost, reliable system installation.
- Can easily be mixed and matched with Atlona power sourcing (PSE) receivers and switchers depending on system design requirements.

4K/UHD capability @ 60 Hz with 4:2:0 chroma subsampling

- Compatible with sources up to 4K/60 4:2:0 and 4K/30 4:4:4.
- Allows 4K/UHD transmission when used with a compatible HDBaseT-equipped display or HDBaseT receiver.

Automatic input selection and automatic display control

- Automatically changes display power state, and switches between inputs based on device connection or disconnection from the switcher. Also can be configured to power off display after a period of inactivity.
- Enables effortless, automated system operation without the need for an external control system.

Remotely powered via PoE (Power over Ethernet)

- Power for transmitter is supplied by Atlona receiver or switcher over HDBaseT.
- Saves time and integration costs.

TCP/IP and RS-232 control of switcher

- Flexible control options for compatibility with third-party control systems. TCP/IP control available through a compatible receiver or HDBaseT-equipped switcher.
- Reduces integration time and costs.

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.

AT-HDVS-210H-TX-WP 2



Specifications

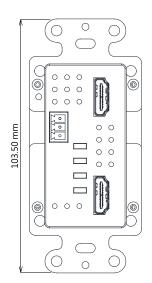
Video				
UHD/HD/SD	4096×2160@24/25/30/50 ⁽¹⁾ /60Hz ⁽¹⁾ , 3840×2160@24/25/30/50*/60Hz ⁽¹⁾ , 2048x1080p, 1080p@23.98/24/25/ 29.97/30/50/59.94/60Hz, 1080i@50/59.94/60Hz, 720p@50/59.94/60Hz, 576p, 576i, 480p, 480i		' '	
VESA	2560×2048, 2560×1600, 2048×1536, 1920×1200, 1680×1050, 1600×1200, 1600×900, 1440×900, 1400×1050, 1366×768, 1360×768, 1280×1024, 1280×800 1280×768, 1152×768, 1024×768, 800×600, 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			
Audio				
HDMI IN / HDBaseT Out	PCM 2Ch, LPCM 5.1, LP Master Audio™	CM 7.1, Dolby® Digital, DT	ΓS® 5.1, Dolby Digital Plus	, Dolby TrueHD, DTS-HD
Sample Rate	32kHz, 44.1kHz, 48kHz, 8	88.2kHz, 96kHz, 176.4kHz,	, 192kHz	
Bit Rate	24-bit (max.)			
Resolution / Distance	4K/UHD - Feet / Meters 1080p - Feet / Meters			
HDMI	15	5	30	10
CAT5e / CAT6a	230	70	330	100
CAT6a / CAT7	330	100	330	100
Signal				
Bandwidth	10.2 Gbps			
CEC	Yes			
HDCP	2.2			
Temperature	Fahrenheit		Celsius	
Operating	32 to 104		0 to 40	
Storage	-4 to 140		-20 to 60	
Humidity (RH)	20% to 90%, non-condensing			
Dimensions	Inches Millimeters			
HxWxD	4.07 in x 1.80 in x 2.63 in 103.50 mm x 45.80 mm		c 67.00 mm	
Weight	Pounds Kilograms			
Device	0.40 0.18			
Certification				
Device	CE, FCC			

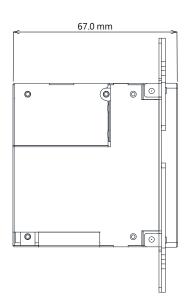
(1) 4096×2160@50/60Hz & 3840×2160@50/60Hz supported @ chroma subsampling 4:2:0 8-bit only.

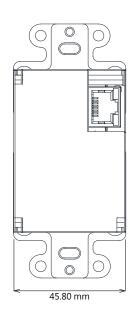
AT-HDVS-210H-TX-WP



Drawings









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Power Sourcing HDMI Over 100M

HDBaseT™ Receiver with Ethernet, Control, and PoE



Introduction

The Atlona **AT-UHD-EX-100CE-RX-PSE** is a 4K/UHD HDMI over 100M HDBaseT receiver for AV signals up to 330 feet (100 meters) over category cable with Ethernet pass-through, RS-232, CEC, and Power over Ethernet. It receives video signals up to 4K/UHD @ 60 Hz with 4:2:0 chroma subsampling, plus embedded multi-channel audio. The AT-UHD-EX-100CE-RX-PSE is HDCP 2.2 compliant and supports EDID communication. It is ideal for use with the AT-UHD-EX-100CE-TX-PD HDBaseT transmitter, or an HDVS-200 Series HDBaseT switcher for extending 4K signals to a display. This receiver features a quarter rack width metal enclosure, with rear panel I/O ports for uncluttered wire management. The AT-UHD-EX-100CE-RX-PSE is externally powered by the included power supply, and provides Power over Ethernet for the AT-UHD-EX-100CE-TX-PD, an HDVS-200 HDBaseT switcher, or other PoE-compatible HDBaseT transmitter.

Applications

- 4K/UHD signal capability is required as part of the system design
- The HDBaseT transmitter will be at a lectern, conference table, or wall location where AC power may be unavailable or expensive to provide



Power Sourcing HDMI Over 100M

HDBaseT™ Receiver with Ethernet, Control, and PoE

Key Features

4K/UHD capability @ 60 Hz with 4:2:0 chroma subsampling

- 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).

PoE power source – remotely powers a PoEcompatible transmitter

- IEEE 802.3af PoE Power Sourcing Equipment (PSE).
- Uses external power supply (included) to power a PoE-compatible transmitter over HDBaseT.
- Eliminates the need for the receiver to be powered remotely or by a power-injection device.

AV, Ethernet, power, and control over HDBaseT⁽¹⁾

- Receives 4K/UHD video, embedded audio, 100Base-T Ethernet, power, and control through a single cable.
- Eliminates multiple cable runs between source, control system, router, and display.

Extended distance HDMI extension

- Receives HDMI signals up to 330 feet (100 meters)
 @ 1080p with CAT5e/6 or 4K/UHD using CAT6a/7 cable.
- Uses easy-to-integrate category cable for low-cost, reliable system installation.

Extends RS-232, CEC, and Ethernet control signals⁽²⁾

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

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[™], and 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 device updates.
- 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.

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.

Included accessories

 User guide, surface mounting brackets, and external universal power supply.

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.



4K/UHD Power Sourcing HDMI Over 100M HDBaseT™ Receiver with Ethernet, Control, and PoE

Specifications

Video			
HDMI Specification	HDMI 2.0, HDCP 1.4 / 2.2	HDMI 2.0, HDCP 1.4 / 2.2	
UHD/HD/SD	4096×2160 (DCI) @ 24/25/30 3840×2160 (UHD) @ 24/25/3 2048×1080p 1080p @ 23.98/24/25/29.97/ 1080i @ 50/59.94/60 Hz	80/50/60 Hz ⁽³⁾	720p @ 50/59.94/60 Hz 576p 576i 480p 480i
VESA	2560×2048 2560×1600 2048×1536 1920×1200 1680×1050 1600×1200	1600×900 1440×900 1400×1050 1366×768 1360×768 1280×1024	1280×800 1280×768 1152×768 1024×768 800×600 640×480
Color Space	YCbCr, RGB		
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0		
Color Depth	8-bit, 10-bit, 12-bit		
HDR ⁽⁴⁾	4K HDR10 @ 24Hz, 4:2:0 chroma subsampling, 10-bit color		

Audio	
Formats	PCM 2Ch, LPCM 5.1, LPCM 7.1, Dolby® Digital, DTS® 5.1, Dolby Digital Plus, Dolby TrueHD, DTS-HD Master Audio™, Dolby Atmos®, DTS:X
Sample Rate	32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz
Bit Depth	Up to 24-bit

Control	
RS-232	Device control and configuration; supports baud rates from 2400 to 115200
IP	Device control and configuration
CEC	Device control and configuration

Connectors	
HDMI OUT	1 - Type A, 19-pin female, locking
HDBaseT IN	1 - RJ45
LAN ⁽³⁾	2 - RJ45, 10/100/1000 Mbps
RS-232	1 - 3-pin captive screw
FW	1 - Type mini-B, 5-pin female
DC 48V	1 - 3-pin DIN connector, locking

Controls and Indicators	
Indicators: POWER LINK	1 - LED, green 1 - LED, amber

Resolution / Distance	4K/UHD - Feet	4K/UHD - Meters	1080p - Feet	1080p - Meters
CAT5e/6	230	70	330	100
CAT6a/7	330	100	330	100
HDMI IN/OUT	15	5	30	10



4K/UHD **Power Sourcing HDMI Over 100M**HDBaseT™ Receiver with Ethernet, Control, and PoE

Signal	
Maximum TMDS Clock	300 MHz
HDBaseT	10.2 Gbps
CEC	2.0

Power	
Consumption	15.2 W (when paired with TX)
External Power Supply	Input: 100 - 240 V AC 50/60 Hz Output: 48 V DC / 0.83 A
Safety	CE, FCC, RoHS, cULus, RCM, CCC

Environmental	
Operating Temperature	32 to +122 °F 0 to +50 °C
Storage Temperature	-4 to +140 °F -20 to +60 °C
Operating Humidity (RH)	+20 to +90%, non-condensing

Chassis	
Dimensions (H x W x D)	25 mm x 109 mm x 127 mm 0.98 in x 4.29 in x 5 in
with ears	27 mm x 119 mm x 127 mm 1.06 in x 4.69 in x 5.00 in
Weight	0.86 lb, 0.39 kg
Safety	CE, FCC



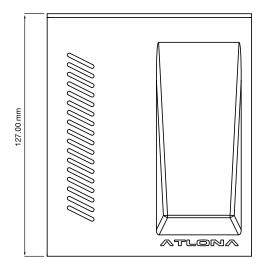
Power Sourcing HDMI Over 100M

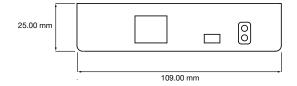
HDBaseT™ Receiver with Ethernet, Control, and PoE

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

Drawings





- (1) Ethernet pass-through is not available on the AT-UHD-EX-100CE-RX-PSE receiver when used with the UHD-PRO3 Series matrix switchers.
- (2) The AT-UHD-EX-100CE-RX-PSE does not include I/O ports for IR control signals extended over HDBaseT. If IR control over HDBaseT is required, please refer to the AT-UHD-EX-100CE-RX.
- (3) 4096×2160 @ 50/60 Hz & 3840×2160 @ 50/60 Hz is restricted to 4:2:0 8-bit chroma subsampling.



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