



Introduction

The Atlona **AT-OME-TX21-WP-E** is a 2×1 switcher and HDBaseT transmitter with HDMI and USB-C inputs. It is designed for commercial installations in Europe. The OME-TX21-WP-E includes interchangeable EU and UK faceplates and brackets. The USB-C input is ideal for AV interfacing with Mac®, Chromebook™, and Windows® PCs, as well as smartphones and tablets. 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 OME-TX21-WP-E is HDCP 2.2 compliant. It is designed for use with Omega™ Series receivers and switchers, select HDVS Series receivers, the AT-UHD-EX-100CE-RX-PSE receiver, and other Atlona 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 Atlona HDBaseT-equipped devices through Power over Ethernet (PoE).

Applications

- **Complete system integration**

The OME-TX21-WP-E and a compatible HDBaseT receiver provide a compact, yet comprehensive and cost-effective integration solution.

- **Larger system applications**

The OME-TX21-WP-E 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.

Key Features

Two-gang enclosure for EU and UK wallplate openings – interchangeable EU and UK trim kits

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

2×1 HDBaseT switcher with HDMI and USB-C⁽¹⁾ inputs

- Immediate compatibility with laptops and tablets with USB-C ports supporting AV.
- No need to provide USB-C to HDMI adapters.

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.

HDCP 2.2 compliant

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

Remotely powered via PoE (Power over Ethernet)

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

Automatic input selection and automatic display control

- Automatically changes display power state, and switches between inputs based on device connection or disconnection (hot-plug detection) 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.

TCP/IP and RS-232 control of switcher

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

Specifications

Video		
Signal	Input - HDMI / USB-C Output - HDBaseT	
Copy Protection	HDCP 2.2	
Pixel Clock	300 MHz	
UHD/HD/SD	4096x2160 @ 60 ⁽¹⁾ /50 ⁽¹⁾ /30/25/24 Hz 1280x720p @ 60/59.94/50 Hz 3840x2160 @ 60 ⁽¹⁾ /50 ⁽¹⁾ /30/25/24 Hz 720x576p 2048x1080p 720x576i 1920x1080p @ 60/59.94/50/30/29.97/25 640x480p /24/23.98 Hz 640x480i 1920x1080i @ 60/59.94/50 Hz	
VESA All resolutions are 60Hz	2560x2048 1366x768 2560x1600 1360x768 2048x1536 1280x1024 1920x1200 1280x800 1680x1050 1280x768 1600x1200 1152x768 1600x900 1024x768 1440x900 800x600 1400x1050 640x480	
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	DTS® Digital Surround™ DTS-HD Master Audio™
Bit Depth	Up to 24 bits		
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	230	70	330	100
CAT6/6a/7	230	70	330	100

RS-232				
Port	1 x 3-pin captive screw			
Use	Pass-through from control system to sink device			
Baud Rates	2400, 4800, 9600, 19200, 38400, 57600, 115200			
Data flow	Bidirectional			

Omega 4K/UHD Two-Input EU/UK Wallplate Switcher

for HDMI and USB-C with HDBaseT™ Output

Indicators and Buttons			
Indicators: HDMI, PWR, AUTO, USB-C, LINK	5 x LED, green		
Buttons: INPUT RESET IP TEST	1 - Push button, momentary, tact-type 1 - Push button, momentary, tact-type 1 - Push button, momentary, tact-type 1 - Push button, momentary, tact-type		
Connectors			
HDMI	1 x Type A, 19-pin female, locking		
USB-C ⁽²⁾	1 x USB Type-C, 24-pin, female		
RS-232	1 x 3-pin captive screw		
HDBaseT OUT	1 x RJ45		
Environmental	Fahrenheit		Celsius
Operating Temperature	+32 to +104		0 to +40
Storage Temperature	-4 to +140		-20 to +60
Operating Humidity (RH)	20% to 90%, non-condensing		
Power			
Consumption	10.2 W		
BTU/h	34.8		
Dimensions (H x W x D)	Inches	Millimeters	
EU version	5.98 x 3.19 x 1.77	152 x 81 x 45	
UK version	5.79 x 3.44 x 1.77	147 x 87.5 x 45	
Weight	Pounds	Kilograms	
Device	0.50	0.23	
Certification			
Device	CE, RoHS, FCC		
Compliance			
NDAA-899	Yes		
Warranty			
Device	To view the product warranty, use the following link: https://atlona.com/warranty		

Footnotes

(1) HDMI and USB-C inputs support up to 4K/UHD @ 60 Hz YUV 4:4:4 8-bit. HDBaseT output supports 4K/UHD @ 60 Hz YUV 4:2:0 only. An input of 4K/UHD @ 60 Hz YUV 4:4:4 will be converted to output 4K/UHD @ 60 Hz YUV 4:2:0.

(2) The USB-C port does not support data or charging of external devices.

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