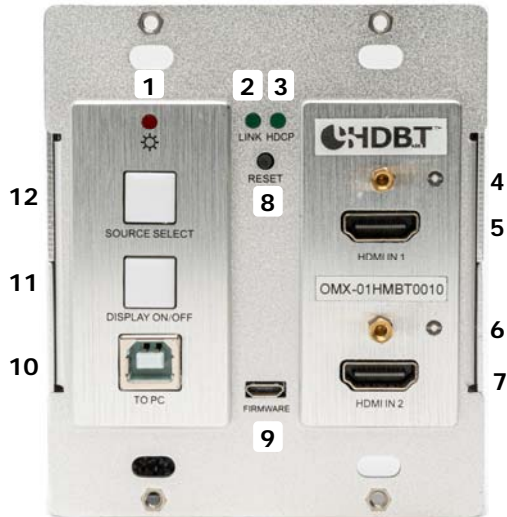


OMX-01HMBT0010 HDBaseT 4K HDMI Extender Set

INSTALLATION & SPECIFICATIONS

Transmitter

Front



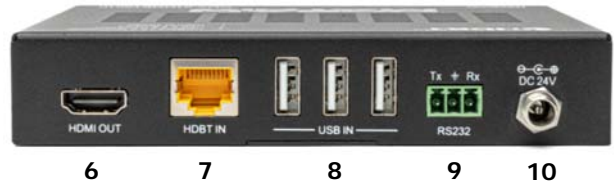
- 1 Power LED Indicator
- 2 Link LED Indicator
- 3 HDCP LED Indicator
Green-HDMI with HDCP
Flashing Green-No HDCP
Off-No HDMI Signal
- 4 HDMI IN 1 LED Indicator
Orange-Connected to source
Green-Device is selected as source
- 5 HDMI IN 1-Connect source
- 6 HDMI IN 2 LED Indicator
Orange-Connected to source
Green-Device is selected as source
- 7 HDMI IN 2-Connect second source
- 8 RESET-Press to reboot the TX
- 9 Factory Use Only
- 10 TO PC-Connect to Computer
- 11 DISPLAY ON/OFF via CEC/RS232
- 12 SOURCE SELECT

Receiver

Front



Back



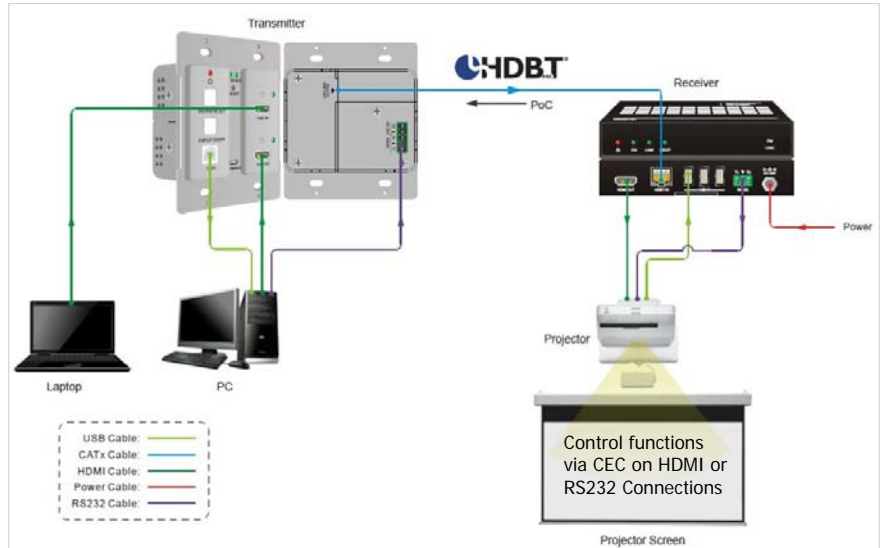
- 1 Power LED Indicator
- 2 ON LED-Indicates working status
- 3 LINK LED Indicator
- 4 HDCP LED Indicator
Green-HDMI with HDCP
Flashing Green-No HDCP
Off-No HDMI Signal
- 5 Factory Use Only
- 6 HDMI OUT-Connect display
- 7 HDBT IN-Connect to HDBT OUT on TX
- 8 USB IN-Connect HID devices such as mouse or keyboard to control device connected to the TO PC on TX.
- 9 RS232-Connect RS232 device
- 10 Plug in Power Supply

Back



- 13 PoC IN/HDBT OUT-connect to HDBT IN on RX
- 14 DC OUT-Connect compatible device to be powered
- 15 RS232-Connect RS232 computer or controller

Typical Application



SIGNAL SWITCHING

Press SOURCE SELECT to switch to the next source device.

AUTO-SWITCHING: To enable auto-switching, press and hold SOURCE SELECT for 3 seconds. When a new input signal is detected, the transmitter will automatically switch to this new signal. To exit this mode, press and hold SOURCE SELECT.

REBOOTING: Upon rebooting, the transmitter will retain the last setting for switching mode.

DISPLAY CONTROL

Press DISPLAY ON/OFF to turn the display on or off.

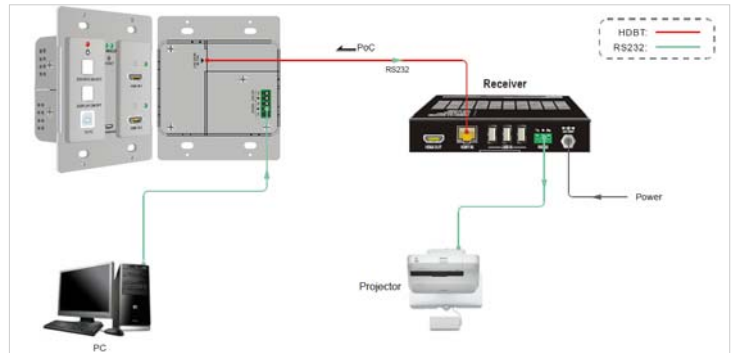
RS232 CONTROL

LOCAL TRANSMITTER CONTROL: Connect a control device, such as a computer, to the TX RS232 port.



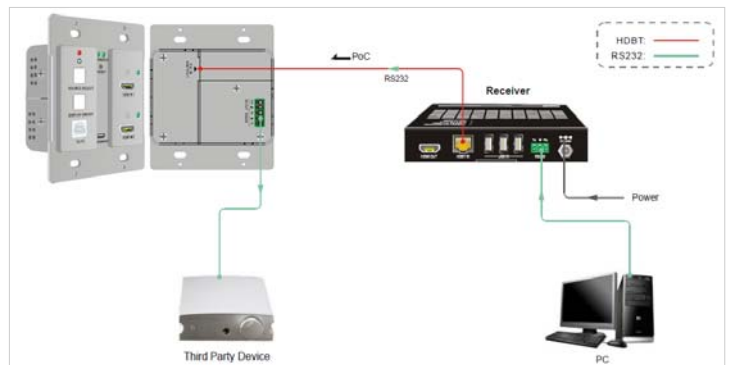
THIRD PARTY DEVICE CONTROL

1. Connect the computer to the TX RS232 port.
2. Connect third party device, such as a projector, to the RX RS232 port.



THIRD PARTY DEVICE CONTROL BY COMPUTER

1. Connect the computer to the RX RS232 port.
2. Connect third party device to the TX RS232 port.



RS232 STANDARD SERIAL CONTROLLER TERMINAL

Download the control software. Find the download on the Ocean Matrix website on the OMX-01HMBT0010 product page.

1. Copy the control software file to the control PC
2. Set the following parameters:
 - COM Number
 - Baud Rate: 2400, 4800, 9600, 19200, 38400, 57600 or 115200
 - Data Bit: 8
 - Stop Bit: 1
 - Parity Bit: None

RS232 COMMAND**TRANSMITTER CONTROL**

Set the following Commands:

- Baud Rate: 9600
- Data Bit: 8
- Stop Bit: 1
- Parity Bit: None

Signal Switching

Command	Function	Feedback Example
50701%	Switch to HDMI IN 1 input.	SWITCH TO HDMI1
50702%	Switch to HDMI IN 2 input.	SWITCH TO HDMI2
50710%	Enable auto-switching mode.	AUTO SWITCHING
50711%	Disable auto-switching mode.	MANUAL SWITCHING
50712%	Get the signal switching mode.	AUTO SWITCHING or MANUAL SWITCHING

CEC Command—Display must Support CEC

Note: Not all displays/monitors with CEC adhere fully to all command functions.

Command	Function	Feedback Example
50730%	Volume Up on Display	CEC VOLUME INCREASE
50731%	Volume Down on Display	CEC VOLUME DECREASE
50732%	Mute	CEC VOLUME MUTE
50733%	Display ON	CEC DISPLAY ON
50734%	Display OFF	CEC DISPLAY OFF

HDCP Command

Command	Function	Feedback Example
50709%	HDCP Mode	HDCP: ON HDCP: OFF
50713%	HDCP Status	HDCP 2.2 NO HDCP

Factory Default

Command	Function	Feedback Example
50617%	Restore Factory Default	FACTORY RESET
50699%	Firmware Version	VERSION Vx.x.x

FEATURES
Extends Two-Way IR Signals
RS232 & CEC Pass Through
EDID Management
Supports ARC & Audio De-embedding – TOSLINK/SPDIF Out on Receiver
Transmission Distance: 1080P up to 230 Feet, 4K up to 131 Feet
Two-Way PoC
Rugged Black Powder-Coated Metal Enclosure
CE, FCC Certified
Includes: (1) 3Pin Terminal Block, (4) Mounting Ears & (4) Screws,, (1) RS232 Cable (3Pin to DB9), (1) 24V/1.25A power supply

SPECIFICATIONS	
Compliance	HDMI 2.0, HDCP 2.2/1.4
Video Bandwidth	18Gpbs
HDMI Video Resolutions	up to 4Kx2K@60Hz 4:4:4
Audio Formats	PCM, Dolby Digital, Dolby True-HD, DTS, DTS-HD
Frequency Response	20Hz-20KHz, +/- 3dB
Power Consumption	12W
Power Input	100-240VAC, 50/60Hz
Dimensions (HxWxD)	0.77 x 5.7 x 3.3 in
Weight	TX 9.7 oz, RX 10.23 oz

SAFETY PRECAUTIONS

- To prevent fire or shock hazard, do not expose this equipment to dust or high humidity. Do not use in an unprotected outdoor installation or in areas classified as overly damp or wet.
- The installation temperature should be kept between 32°F to 140°F (0°C to 60°C). Avoid direct sunlight exposure or extreme changes of temperature over a short period of time.
- Do not place the unit on an unstable base and avoid heavy impact.
- Proper ventilation is required for permanent installation. Do not block or cover enclosure openings as they protect the unit from overheating.
- Prior to cleaning, turn the power off and unplug the unit from all connections. Use a damp cloth. Do not use liquid or aerosol cleaners.
- Do not overload outlets and extension cords as this may result in a risk of fire or electric shock.
- Enclosure entry is dangerous. Never push objects of any kind, including liquids, through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.
- Do not open or service this unit yourself as opening or removing covers may expose you to dangerous voltage and other hazards.
- There are no user-serviceable parts inside the unit. If the unit requires service contact your authorized dealer, or authorized repair service company.

Federal Communications Commission (FCC) Compliance Notices

Class A Interference Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Caution

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.