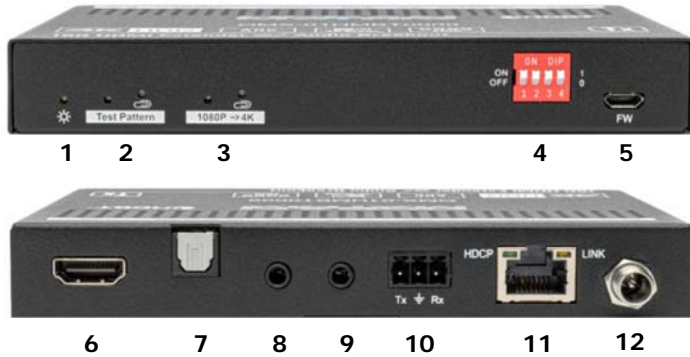


## OMX-01HMBT0009 HDBaseT 4K HDMI Extender Set

### INSTALLATION & SPECIFICATIONS

#### Transmitter



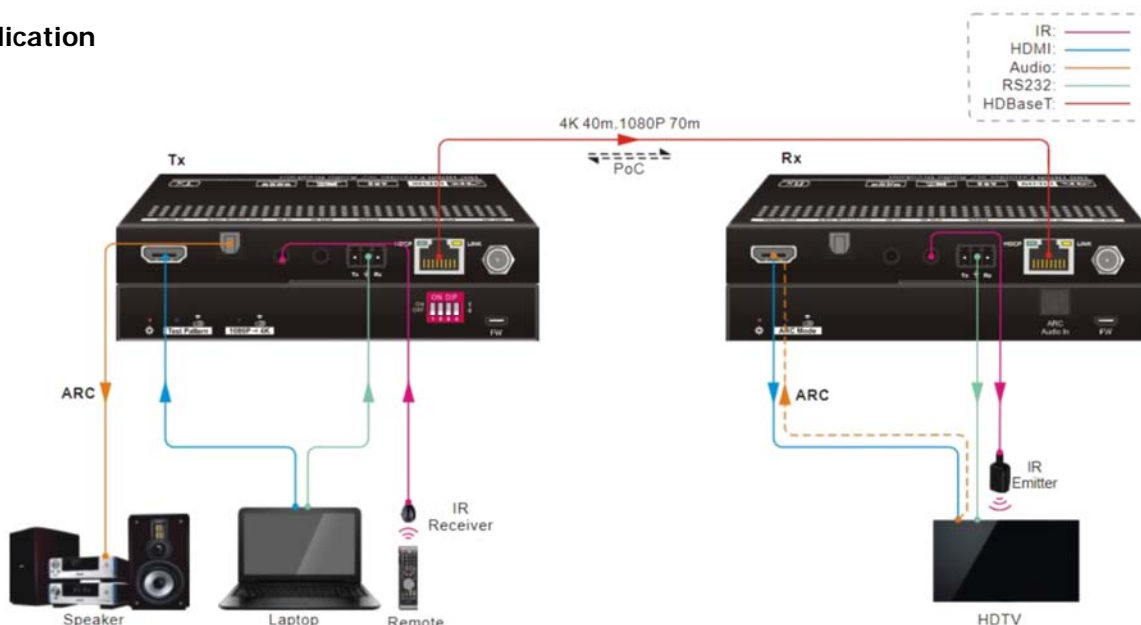
#### Receiver



- 1 Power LED Indicator
- 2 Test Pattern-Push Button with paperclip to enable. Left LED turns blue & generates an image of 1080P/60Hz color bar to output. Press again, LED flashes and generates an image of 4K/60Hz 4:4:4 color bar. Press & hold to exit.
- 3 1080P-4K -Push Button with paperclip to enable upscaling. LED will be blue. Press & hold to exit
- 4 EDID-4-Pin Dip Switch. See EDID Management to set.
- 5 Factory Use Only
- 6 HDMI IN—Connect to Source
- 7 ARC TOSLINK OUT—Connect speaker or amplifier
- 8 IR IN—Connect RX
- 9 IR OUT—Connect IR Emitter
- 10 RS232-3Pin Terminal Block
- 11 HDBT OUT: Connect to RX. LINK LED turns orange when link is made and HDCP LED turns green to indicate HDCP
- 12 Plug in AC Power Supply

- 1 Power LED Indicator
- 2 ARC Mode-Push Button with paperclip to enable. Left LED turns blue. Press again to exit.
- 3 ARC Audio In—Connect audio source
- 4 Factory Use Only
- 5 HDMI OUT—Connect Display
- 6 Audio Breakout-ARC TOSLINK Mode must be off for audio de-embedding. There is no audio output at this port when ARC Mode is ON.
- 7 IR IN—Connect RX
- 8 IR OUT—Connect IR Emitter
- 9 RS232-3Pin Terminal Block
- 10 HDBT IN—Connect to TX. LINK LED turns orange when link is made and HDCP LED turns green to indicate HDCP
- 11 Plug in AC Power Supply

#### Typical Application



## DIP SWITCH OPERATION

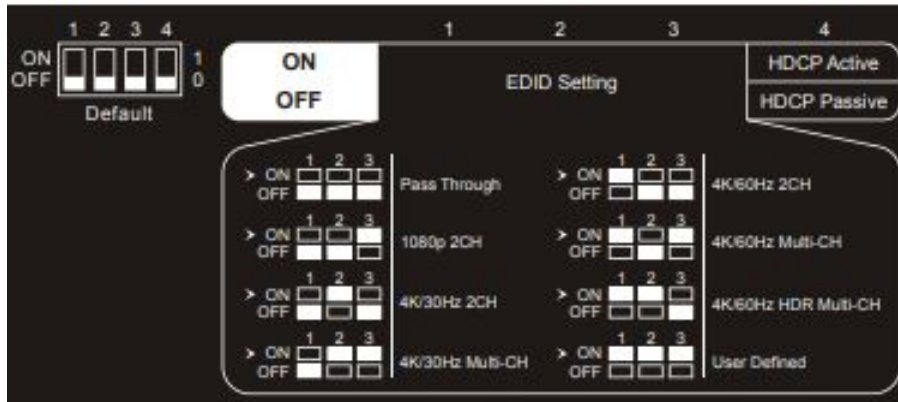
### EDID Management

#### Switches 1, 2, 3

The source device obtains its EDID from the first connected display. To ensure video resolution compatibility among multiple displays, set the EDID to a fixed value using the DIP switch. See the bottom of the device for settings.



ON Position = 1  
OFF Position = 0



Switch Setting	Video Resolution	Audio Format
000	Pass Through	Pass Through
001	1080P	2CH (LPCM 2 CH)
010	3840x2160@30Hz	2CH (LPCM 2 CH)
011	3840x2160@30Hz	Multi-CH (LPCM 8CH, Dolby TrueHD, DTS-HD , Dolby Digital5.1, DTS 5.1, Dolby Digital Plus)
100	3840x2160@30Hz	22CH (LPCM 2 CH)
101	3840x2160@30Hz	Multi-CH (LPCM 8CH, Dolby TrueHD, DTS-HD , Dolby Digital5.1, DTS 5.1, Dolby Digital Plus)
110	3840x2160@30Hz HDR	Multi-CH (PCM 2CH, PCM5.1, Dolby Digital 5.1, DTS 2CH)
111	User-Defined EDID	Refer to Information Below

### User-Defined EDID

The specific EDID can be customized by following the steps below:

- Rename the user-defined EDID according the following format. EC\_xx\_xxxxx\_xxxx\_xxx.bin  
 EC: Fixed value  
 xx: EDID ID. It is "15".  
 xxxxx: Video resolution.  
 xxx: Refresh rate.  
 xxx: Audio format.  
 Example: EC\_15\_3840x2160\_60Hz\_ Dolby.bin
- Connect the FW port of the transmitter to the PC with a USB cable, and then power on the transmitter. The PC will automatically detect a virtual disk: BOOTDISK.
- Double-click to open the disk, to a file READY.TXT
- Copy the user-defined EDID (such as EC\_15\_3840x2160\_60Hz\_Dolby.bin) to the "BOOTDISK" disk.
- Reopen the disk to check the filename READY.TXT. If the filename automatically becomes "SUCCESS.TXT" then the user-defined EDID was imported into the transmitter and saved as its corresponding EDID ID successfully.
- Remove the USB cable, and then reboot the transmitter.
- Now the new EDID can be ready by setting the DIP switch status to 111.

### HDCP Switch 4

- To set HDCP Active Mode, put Switch 4 in the ON position. The HDMI output will be HDCP 1.4, if the input video has HDCP content. If no HDCP content, there will be no HDCP output.
- To set HDCP Passive Mode, put Switch 4 in the OFF position. The unit automatically follows the HDCP version of source device.

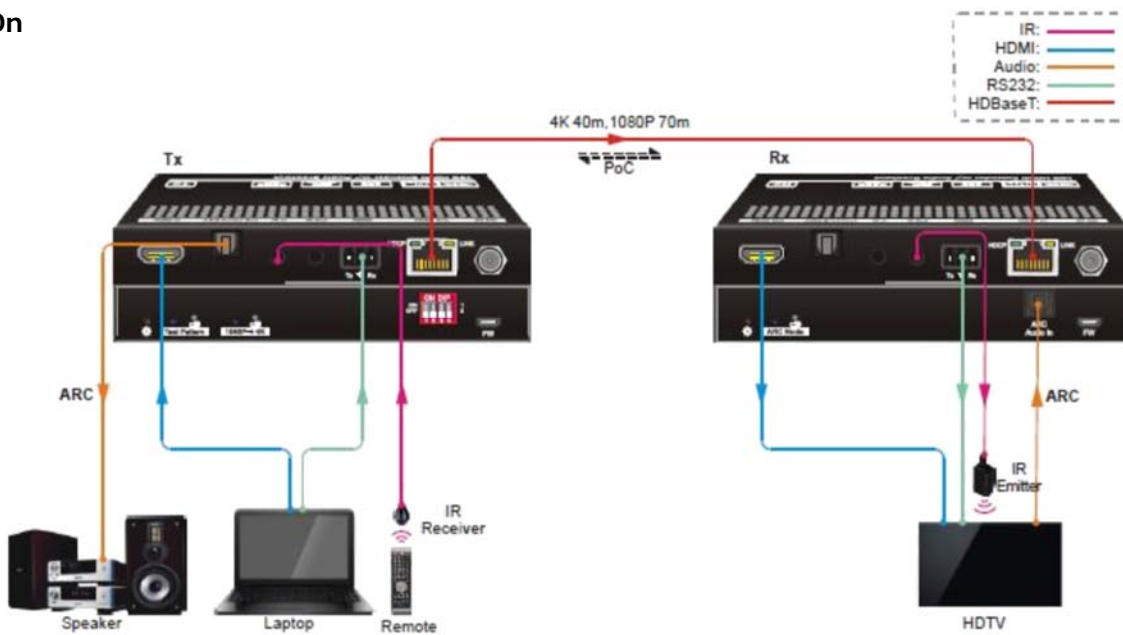
### ARC MODE

Enable or disable ARC mode on the front of the receiver.  
 Push Button with paperclip to enable ARC mode.  
 LED illuminates blue.  
 Press again to exit.

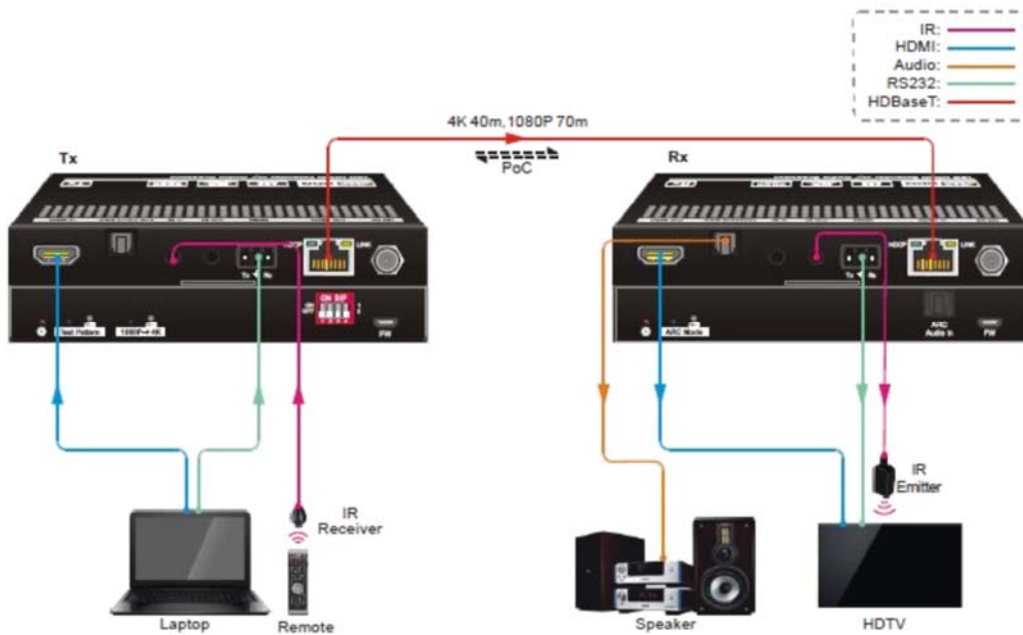


ARC Mode	Display	Audio Transmission Path
ON	ARC Supported	Display audio is transmitter to the receiver via HDMI cable, then to the ARC Audio OUT on the transmitter
	ARC is Not Supported	Connect the display to the ARC Audio IN of receiver with audio cable. TV audio is transmitted to the receiver, then to the ARC Audio OUT on the transmitter. An STP cable is recommended for optimal performance.
OFF	N/A	Audio Breakout on receiver is connected to a speaker or amplifier for HDMI source audio de-embedding

### ARC Mode On



### ARC Mode Off



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.