HDMI 2.0 KVM HDBT Extender Kit, 100m

500449

Overview

The MuxLab HDMI 2.0 KVM HDBT Extender Kit, 100m (model: 500449) allows one HDMI channel, one USB2.0 signal, one RS232 signal and one bi-directional IR signal to be transmitted over distances of up to 328ft (100m) at 4K@60Hz (4:4:4) resolution via one (1) Cat 6a/7 unshielded twisted pair cable in a point-to-point configuration.

The MuxLab HDMI 2.0 KVM HDBT Extender Kit, 100m includes one (1) transmitter and one (1) receiver. The Extender supports EDID management, bi-directional PoC function and can switch between HDBT Standard Mode (as factory default) and HDBT Long Reach Mode. The extender features, in both the Transmitter and Receiver, a 1x2 USB hub for transferring USB data transmissions and analog audio port, used for audio de-embedding output.

Applications

- KVM /AV Systems
- Classroom training systems
- Digital signage
- Boardroom systems
- Collaborative PC systems
- Medical information systems

Key Features

- Supports HDMI 2.0b (4K/60 4:4:4) & HDCP 2.2
- Supports 18Gbps video bandwidth
- 4K/60Hz transmission distance up to 328ft/100m over single CAT 6A/7 cable
- 1080p/60Hz transmission distance up to 492ft/150m over single CAT 6/6A/7 cable (in Long Reach Mode)
- Supports HDR, HDR10,HDR10+, Dolby Vision and HLG pass through
- Supports LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD pass through
- Supports bidirectional PoC (Power over Cable)
- Support 3.5mm analog audio de-embedding at TX and RX

Specification

Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
Video Bandwidth	18Gbps
Video Resolution	Up to 4K/60Hz
HDR	HDR, HDR10,HDR10+, Dolby Vision,HLG
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
Color Depth	8/10/12-bit
Audio Formats	LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
IR Level	12Vp-p
Transmission Distance	HDBT Standard Mode: 4K60/100m; 1080P/100m (CAT6A/7 cable) HDBT Long Reach Mode: 1080P/150m (CAT6/6A/7 cable)

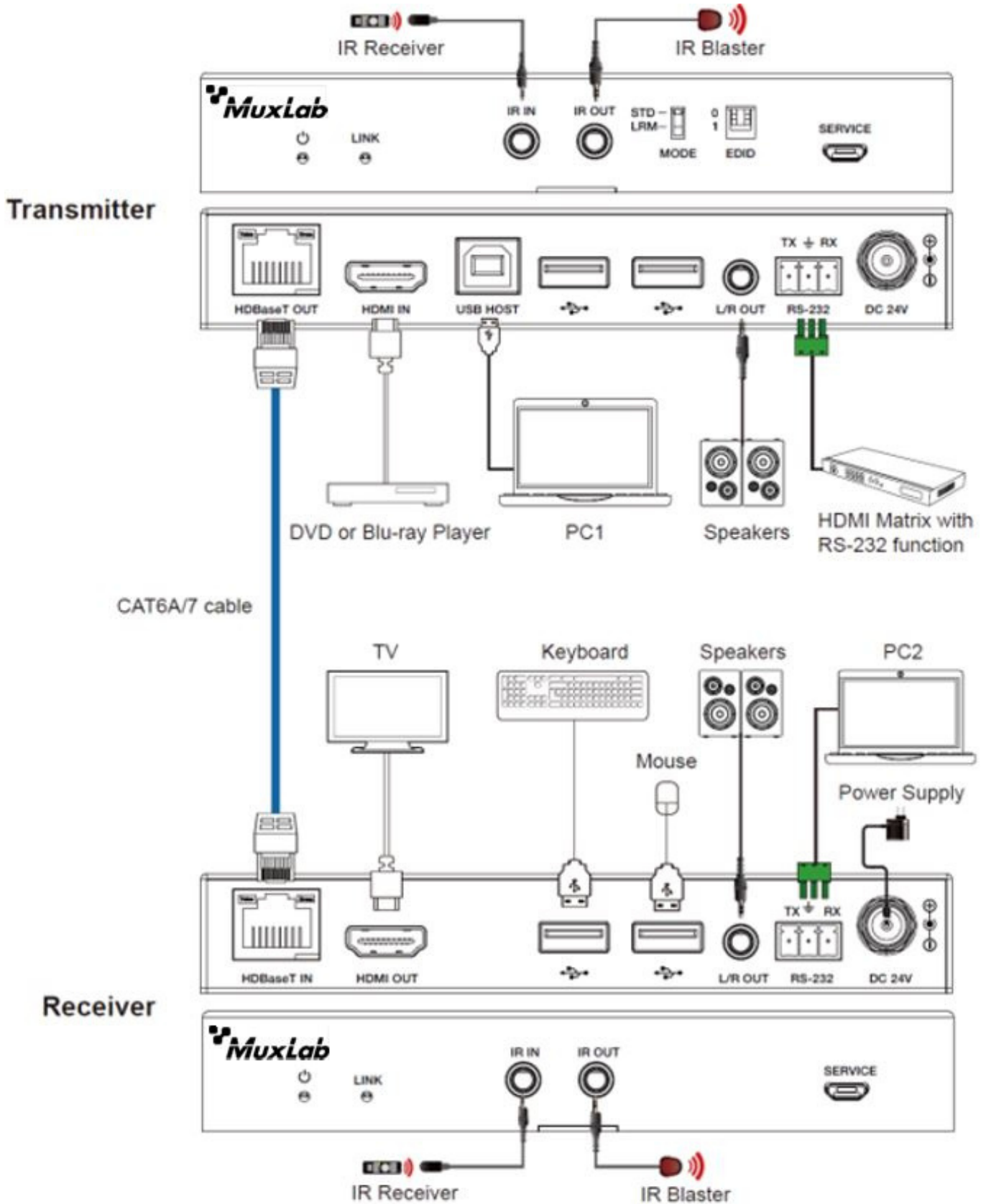| Connection	
Transmitter	Input: 1 x HDMI IN [Type A, 19-pin female] Outputs: 1 x HDBaseT OUT [RJ45 connector] 1 x L/R OUT [3.5mm Stereo Mini-jack] Controls: 1 x IR IN [3.5mm Stereo Mini-jack] 1 x IR OUT [3.5mm Stereo Mini-jack] 1 x RS-232 [3pin-3.81mm Phoenix jack] 1 x SERVICE [Micro USB, 5-pin female] 1 x USB HOST [USB Type B] 2 x USB DEVICES [USB Type A]
Receiver	Inputs: 1 x HDBaseT IN [RJ45, 8-pin female] Outputs: 1 x HDMI OUT [Type A, 19-pin female] 1 x L/R OUT [3.5mm Stereo Mini-jack] Controls: 1 x IR IN [3.5mm Stereo Mini-jack] 1 x IR OUT [3.5mm Stereo Mini-jack] 1 x RS-232 [3pin-3.81mm Phoenix jack] 1 x SERVICE [Micro USB, 5-pin female] 2 x USB DEVICES[USB Type A]

Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions (WxDxH)	Transmitter/Receiver: 144mm x 78mm x 23mm
Weight	Transmitter: 323g, Receiver: 319g
Power Supply	Input: AC 100 - 240V 50/60Hz Output: DC 24V/1A (US/EU standard, CE/FCC/UL certified)
Power Consumption	14.28W (POC)
Operating Temperature	32 - 104°F / 0 - 40°C
Storage Temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20~90% RH (non-condensing)

Generic Specification	
Compliance	Regulatory: FCC, CE, RoHS
Warranty	2 years
Order Information	500449 HDMI 2.0 KVM HDBT Extender Kit 100m (UPC:627769004494)

Diagram

IR Receiver

IR Blaster

Transmitter

MuxLab

LINK

IR IN · IR OUT · STD — LRM — MODE · 0 1 EDID · SERVICE

HDBaseT OUT · HDMI IN · USB HOST · ↔ · ↔ · L/R OUT · TX RX RS-232 · DC 24V

CAT6A/7 cable

DVD or Blu-ray Player

PC1

Speakers

HDMI Matrix with RS-232 function

TV

Keyboard

Speakers

PC2

Mouse

Power Supply

HDBaseT IN · HDMI OUT · ↔ · ↔ · L/R OUT · TX RX RS-232 · DC 24V

Receiver

MuxLab

LINK

IR IN · IR OUT · SERVICE

IR Receiver

IR Blaster

MuxLab

HDMI 2.0 KVM HDBT Extender Kit, 100m
500449

Follow us: