Overview:

The HDMI 2.0 Fiber Extender Kit, Single Mode (model: 500485) allows one HDMI 2.0 and one USB 1.1 channel to be transmitted up to 10km (6.25miles) at all resolutions up to 4K2K@60Hz over single mode fiber optic cable in a point-to-point configuration. In addition, the HDMI 2.0 Fiber Extender Kit, Single Mode is HDCP 2.2 compliant and supports IR and RS-232 pass-through and keyboard/mouse USB signal transmission.

Applications:

- KVM applications
- Commercial and residential AV systems
- Classroom projector systems
- Boardroom systems
- Collaborative PC systems
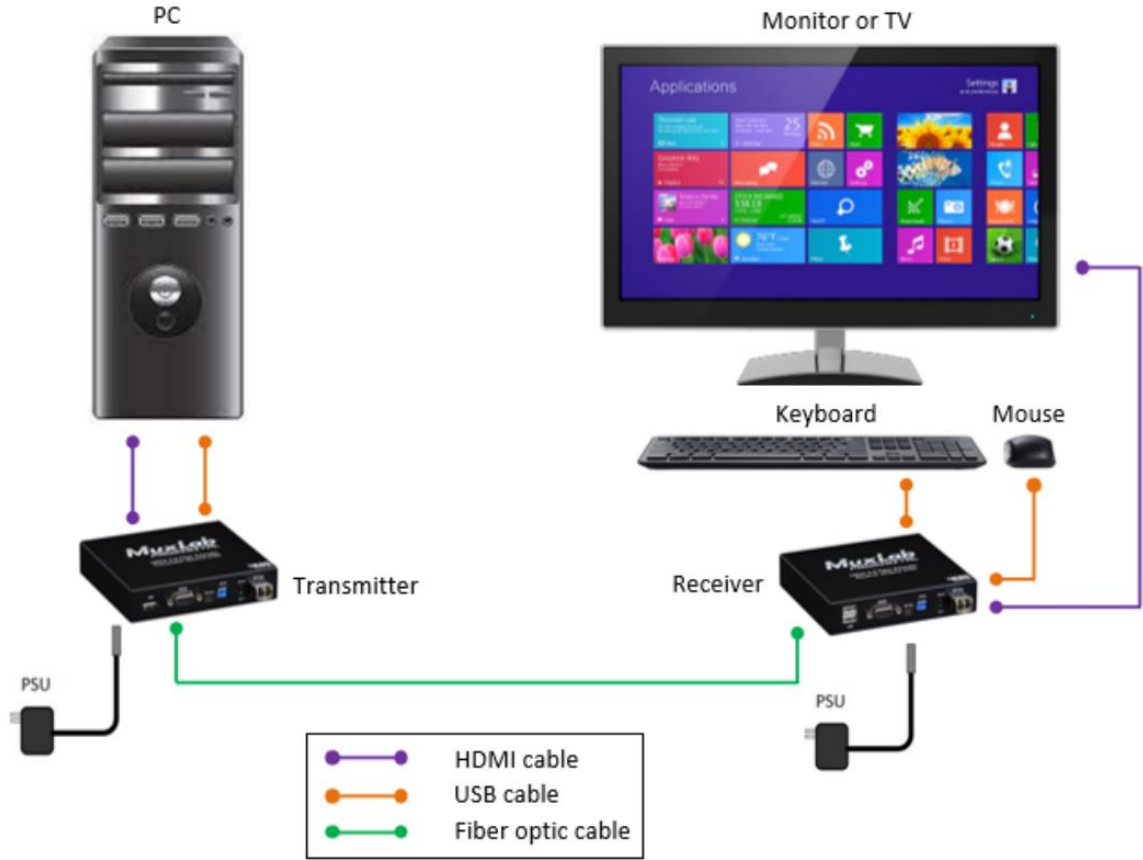- Medical information systems

Key Features:

- Supports HDMI 4K @ 60fps (4:4:4 8bits)
- Supports HDR, which is 4K @ 60fps (4:2:0 10bits)
- Supports HDCP 2.2
- Extends HDMI signals up to 10km over single mode fiber optic cable
- Supports USB 1.1 for keyboard and mouse only
- Bi-directional IR pass-through
- Supports full frequency IR signal from 20KHz to 60KHz
- Includes wall-mount bracket kit

Specifications

Technical	
HDMI compliance	HDMI 2.0a
HDCP compliance	HDCP 2.2
Video bandwidth	Single-link 594MHz [18Gbps]
Video support	HDR 4K2K@60 (4:2:0 10bits) / 4K2K@60 (4:4:4 8bits)
Audio support	Surround sound [up to 7.1ch] or stereo digital audio
Input TMDS signal	1.2 Volts [peak-to-peak]
Input DDC signal	5 Volts [peak-to-peak, TTL]
ESD protection	Human body model — ±15kV [air-gap discharge] & ±8kV [contact discharge]
PCB stack-up	4-layer board [impedance control — differential 100Ω; single 50Ω]
IR pass-thru	Bi-directional
RS-232 support	Yes
Input ports	Transmitter [TX] 1x HDMI, 1x 3.5mm Receiver [RX] 1x fiber, 1x 3.5mm
Output ports	Transmitter [TX] 1x fiber, 1x 3.5mm Receiver [RX] 1x HDMI, 1x 3.5mm
In / Out ports	Transmitter [TX] 1x RS-232, 1x USB Receiver [RX] 1x RS-232, 2xUSB
HDMI source control	Controllable via IR pass-through from RX to TX with IR extenders
HDMI connector	Type A [19-pin female]
USB connector	Type A
3.5mm connector	Transmitter [TX] IR receiver / IR blaster Receiver [RX] IR receiver / IR blaster
Mechanical	
Housing	Metal enclosure
Unit Dimensions (DxWxH)	Transmitter [TX] 4.9" x 4.4" x 1.1" (125mm x 112mm x 28mm) Receiver [RX] 4.9" x 4.4" x 1.1" (125mm x 112mm x 28mm)
Unit Weight	Transmitter [TX] 1.02 lbs (0.46Kg) Receiver [RX] 1.00 lbs (0.45Kg)
Wall Mounting Hardware	Wall-mount bracket kit, with screws
Power supply	12V2A
Power consumption	Max 10W
Operation temperature	0~40°C [32~104°F]
Storage temperature	-20~60°C [-4~140°F]
Relative humidity	20~90% RH [no condensation]
Warranty	2 years
Order Information	500485 HDMI 2.0 Fiber Extender Kit, Single Mode (UPC: 627699004852)

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Typical Application

Transmitter (Source Side)   **Receiver (Display Side)**

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