

4K HDMI over Fiber Extender Kit, 4K 60Hz up to 3300ft/1km (Single Mode) or 1000ft/300m (Multimode) LC Fiber Optic, HDR, HDCP, 3.5mm Audio/RS232/IR Extender, Transmitter and Receiver Kit

Product ID: ST121HD20FXA2



This HDMI over Fiber Extender Kit extends an Ultra HD (UHD) 4K 60Hz HDMI signal, with 7.1ch audio, up to 3300ft over Single Strand LC fiber cable. This converter kit includes both the transmitter and receiver for a complete end-to-end solution.

This HDMI extender works over Single Mode or Multimode fiber cabling, allowing the utilization of existing fiber infrastructure. The single strand optical fiber provides full-bandwidth video while being immune to Electro-Magnetic Interference (EMI), making it ideal for use in challenging environments.

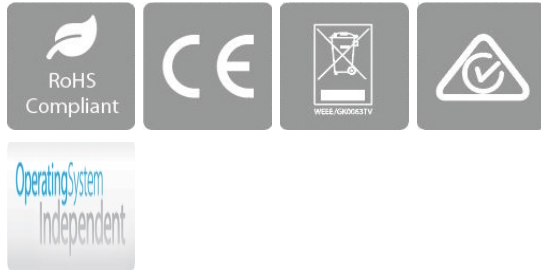
Audio extraction functionality enables playback of the HDMI source audio via the 3.5mm audio output on the receiver unit. Simultaneous audio playback across both HDMI and 3.5mm outputs is supported, providing flexibility for a variety of audio setups.

The point-to-point connection, using LC single strand fiber between the A/V transmitter and receiver, eliminates the need for IP configuration, drivers, or network equipment. The HDMI extension kit features a durable steel housing with built-in mounting brackets, allowing for a tidy and secure installation.

The HDMI over Fiber kit features a local HDMI output and IR/serial extension for a convenient and versatile setup. Ideal for setups that include projectors with RS232 controls, or A/V equipment with IR remote controls. The enhanced EDID Copy functions ensure the correct display information is used during the setup process. LED indicators allow for status monitoring. 8kV air and 6kV contact Electrostatic Discharge (ESD) protection ensures the safety and longevity of the equipment.

This product is backed for 2-years, including free lifetime 24/5 multi-lingual technical assistance.

Certifications, Reports and Compatibility



Applications

- Ideal for Digital Signage where the display is far away from the source device
- Extend an HDMI video source in a hospital, with no Electromagnetic/Radio Frequency Interference (EMI/RFI)
- Connect a local video source to a remote display that is located across a building complex

Features

- **HDMI OVER FIBER EXTENDER KIT:** Extend an Ultra HD (UHD) 4K 60Hz HDMI signal with 7.1ch audio up to 3300ft (1km) over Single Mode or up to 1000ft (300m) over Multimode fiber cabling; Single Strand LC/UPC connector; HDR10; HDCP 2.2; 4:4:4 Chroma Subsampling
- **RELIABLE VIDEO TRANSMISSION:** HDMI extender works over Single Mode or Multimode fiber, enabling the use of existing fiber cabling; Single strand optical fiber provides full bandwidth video while being immune to Electro-Magnetic Interference (EMI)
- **AUDIO CAPABILITIES:** HDMI 2.1 Extender offers an audio extraction function that enables playback of HDMI source audio via the 3.5mm audio output on the receiver unit; Simultaneous audio playback across both HDMI and 3.5mm outputs is supported
- **HASSLE-FREE INSTALLATION:** Point-to-Point connection with optical fiber between transmitter and receiver means no IP configuration, drivers, or network equipment required; Durable metal housing with built-in mounting brackets for a tidy installation
- **ROBUST FEATURES:** HDMI to Fiber Converter features a local HDMI output and IR/serial extension for convenient and versatile setup options; EDID Copy; LED indicators for status monitoring; 8kV air and 6kV contact Electrostatic Discharge (ESD) protection

Hardware

Warranty	2 Years
Ports	2
Cabling	Fiber Optic
Audio	Yes
Rack-Mountable	No

Industry Standards	HDMI 2.1 TMDS, HDCP 2.2 and DVI 1.0 compliant
Chipset ID	SiFotonics SD1503/SD1513

Performance

Maximum Data Transfer Rate	18 Gbps
Maximum Cable Length	3280.0 ft [1000 m]
Max Distance	1 km (0.6 mi)
Maximum Digital Resolutions	4K 60Hz
Supported Resolutions	Single Mode: 3300ft/1km at 4096 x 2160 60Hz Multimode: 1000ft/300m at 4096 x 2160 60Hz
Wide Screen Supported	Yes
Audio Specifications	HDMI - 7.1 Channel Audio
General Specifications	Supported Baud Rate: 4800 ~ 115200bits/s Supported IR Frequency: 20 ~ 60KHz HDMI Audio Formats: LPCM2/5.1/7.1CH, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD

Connector(s)

Local Unit Connectors	1 - HDMI 1 - HDMI 1 - 3.5mm Stereo Female 3 pos 1 - M-Type Barrel (Inner Diameter: 2.1 mm, Outer Diameter: 5.5 mm) 1 - Terminal Block (3 Wire) 1 - 3.5mm Stereo Female 3 pos
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		1 - Infrared IR DA
		1 - USB Micro-B (5 pin)
		1 - LC
Remote Unit Connectors		1 - HDMI
		1 - 3.5mm Stereo Female 3 pos
		1 - Terminal Block (3 Wire)
		1 - M-Type Barrel (Inner Diameter: 2.1 mm, Outer Diameter: 5.5 mm)
		1 - Infrared IR DA
		1 - Infrared IR DA
		1 - USB Micro-B (5 pin)
		1 - LC
Software		
	OS Compatibility	No Drivers or Software Required
Special Notes / Requirements		
	System and Cable Requirements	OM3 Multimode or OS1 Single Mode cabling or higher is recommended for optimal performance.
	Note	Only the pre-installed SFP transceivers are supported.
		HDMI CEC is not supported by this product.
Indicators		
	LED Indicators	1 - Red - Power
		1 - Green - Fiber Connection Active
		1 - Green - HDMI Input detected (Transmitter Only)
		1 - Green - HDMI Loop (Local HDMI Output, Transmitter Only)
		1 - Green - HDMI Output (Receiver Only)
Power		
	Power Source	AC Adapter Included

Input Voltage	100 - 240 AC
Input Current	0.35A
Output Voltage	5 DC
Output Current	1A
Center Tip Polarity	Positive
Plug Type	M
Power Consumption (In Watts)	0.1W

Environmental

Operating Temperature	0C to 40C (32F to 104F)
Storage Temperature	-20C to 60C (-4F to 140F)
Humidity	20% ~ 90% RH (non-condensing)

Physical Characteristics

Color	Black
Material	Metal
Product Length	5.3 in [13.4 cm]
Product Width	2.7 in [6.8 cm]
Product Height	0.7 in [1.8 cm]
Weight of Product	1.2 lb [0.6 kg]

Packaging Information

Package Quantity	1
Package Length	11.9 in [30.3 cm]
Package Width	8.0 in [20.3 cm]
Package Height	2.6 in [6.5 cm]
Shipping (Package) Weight	2.3 lb [1.0 kg]

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