Mini 4K HDMI Fiber Extender with RS232 & External Audio

Features

- ► HDMI 1.4a and HDCP1.2 Support
- ► Uncompressed transmission, No delay, No losses
- ► DDC HPDT Signal Support
- ► Data rate up to 10.2Gbps
- ► Transmission distance up to 80km over fiber cable
- ► Supports All Modes up to maximum 4K*2K@60Hz, YUV 4:2:0
- ► Support external stereo audio
- ► Support Serial RS232 Signal
- ► Hot-Pluggable, EMI/RFI Resistant
- ► Miniature form factor for ease of use and installation
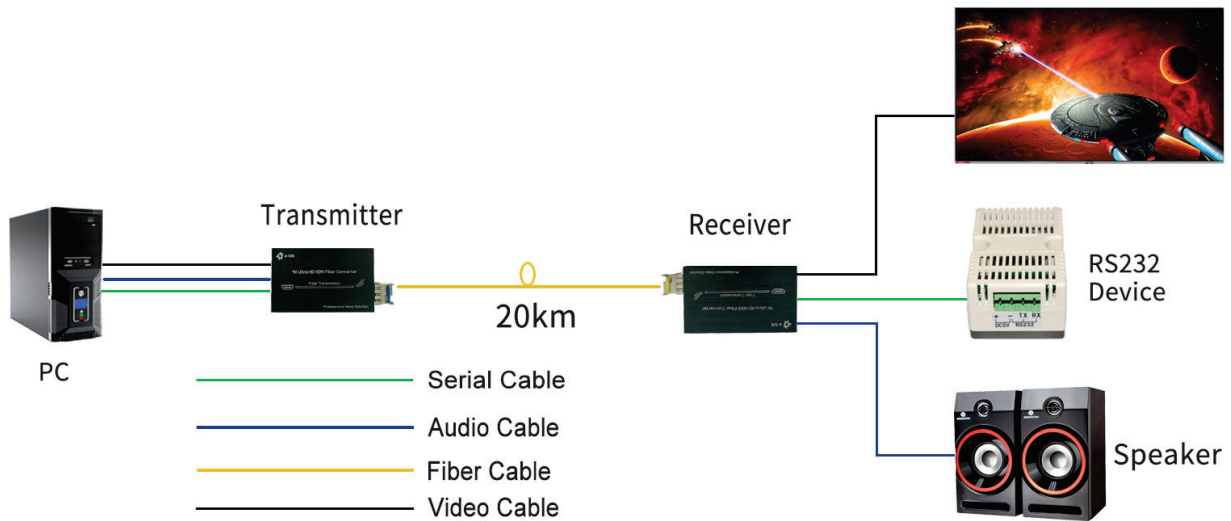- ► Operating Case Temperature: -10~50°C

Overview

4K HDMI Fiber Extender are designed to support transmission of an uncompressed lossless HDMI 1.4a signal, RS232 signal and stereo audio over optical fiber up to distances of 80km, at a resolution of maximum 4K*2K@60Hz, YUV 4:2:0.

The Transmitter converts an HDMI signal to a single 10Gb/s serial data stream for transmission over optical fiber. The Receiver converts the serial data back to an HDMI signal. The transceivers are RoHS compliant and lead-free per requirements in Europe and China. This product is ideal for large-screen display, conferencing systems and home entertainment and so on. The device has the ability of anti-interference, to ensure the stability of the signal.

Application

Transmitter

Receiver

20km

PC

RS232 Device

Speaker

— Serial Cable
— Audio Cable
— Fiber Cable
— Video Cable

Technical Indexes

Type of Extender	Fiber Transmitter for HDMI signal over Optical Fiber Cable
Input Signals	HDMI
Connector	Female HDMI type A
Signal Support	HDMI 1.4a HDMI format standard and HDCP compliant
Video Support	Up to 720P/960P/1080p@60Hz, 4K*2K@30Hz
Audio Support	Dolby TrueHD, Dolby Digital Plus, DTS, DTS-ES 6.1, DTSHD, DTS-HD-HRA, DTS-HD Master, (PCM-2CH)
Chroma Subsampling	Max 3840*2160@60Hz (4:2:0) Max 3840*2160@30Hz (4:4:4, 4:2:2)
EDID	Bi-Directional (Forward + Backward) Transmission: Support Dynamic EDID, Plug & Play, no need to learn Single-Directional (Forward) Transmission: Support EDID learning manually
Audio Interface	3.5MM external stereo audio
RS232	3 Pin terminal, Baud rate ≤ 38400
Fiber Connector	SFP/LC
Bandwidth	10.2Gbps
Transmission Distance	300m (Over OM3 Fiber)
	Up to 80km (Over Single-mode Fiber)
Operating Temperature	-10 to + 50°C
Storage Temperature	-20 to + 80°C
Humidity	5% to 90% RH (non-condensing)
MTBF	100,000 hours

Dimension (WxDxH)	2.87 x 1.73 x 0.69in (73x44x17mm)
Weight	60g / 0.13 lb
Power Supply	5V DC, USB Typ-C
Power dissipation	<5W
Safety Approvals	CE, FCC, Rohs