Mini 4K DVI Fiber Optic Extender with RS232

Features

- DVI 1.0 and HDCP1.2 Support
- Uncompressed transmission, No delay, No losses
- 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 Serial RS232 Signal
- Auto EDID, match different kind display device
- Hot-Pluggable, EMI/RFI Resistant
- Miniature form factor for ease of use and installation
- Operating Case Temperature: -10~50°C

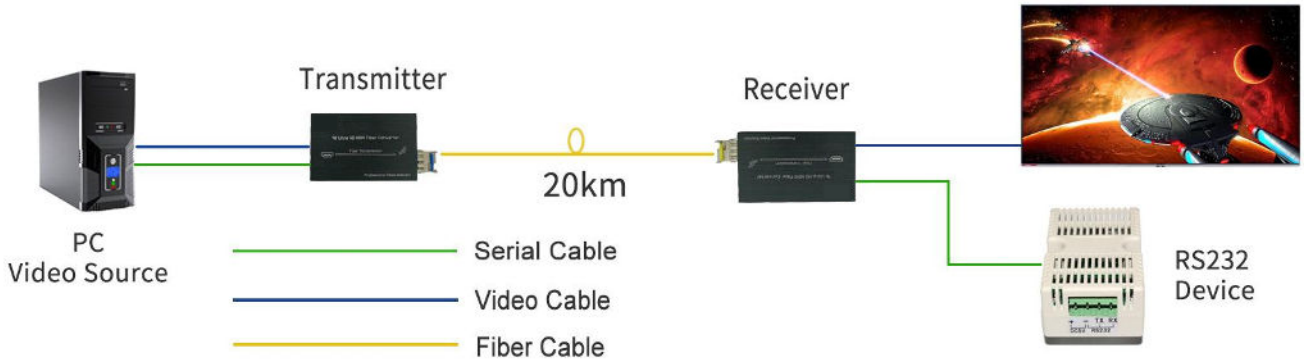


Overview

The ZP-MDR4K Series 4K DVI Fiber Extender are designed to support transmission of uncompressed DVI signal and RS232 signal over optical fiber up to distances of 80km at a resolution of maximum 4K*2K@60Hz, YUV 4:2:0.

The Transmitter converts DVI signal to a single 10Gb/s serial data stream for transmission over optical fiber. The Receiver converts the serial data back to an DVI 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



Technical Indexes

Type of Extender	DVI signal over Optical Fiber Cable
Input Signals	DVI
Connector	DVI-D
Signal Support	DVI 1.0 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
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 ~ + 50°C
Storage Temperature	-20 ~ + 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-C)
Power dissipation	<5W
Safety Approvals	CE, FCC, Rohs

Ordering Information

Model	Description
ZP-MDR4K-MM	Mini DVI Fiber Extender: 1-Ch DVI Signal(4K*2K) + Backwards RS232, OM3 Multi-mode Fiber, 300 meters, LC, including 1 transmitter & 1 receiver, 5V DC Power Input
ZP-MDR4K-S20	Mini DVI Fiber Extender: 1-Ch DVI Signal(4K*2K) + Backwards RS232, Single-mode Fiber, 20km, LC, including 1 transmitter & 1 receiver, 5V DC Power Input
ZP-MDR4K-S40	Mini DVI Fiber Extender: 1-Ch DVI Signal(4K*2K) + Backwards RS232, Single-mode Fiber, 40km, LC, including 1 transmitter & 1 receiver, 5V DC Power Input
ZP-MDR4K-S80	Mini DVI Fiber Extender: 1-Ch DVI Signal(4K*2K) + Backwards RS232, Single-mode Fiber, 80km, LC, including 1 transmitter & 1 receiver, 5V DC Power Input