

FS 4K HDMI Extender

4K HDMI Extender Set with Audio, EDID and RS232 via Single LC Fiber for 10km



Overview

4K@30Hz HDMI Extender provides long haul transmission of HDMI, audio signals over a single fiber. Engineered for reliability and exceptional high resolution image performance, it uses all-digital technology to deliver perfect pixel-for-pixel transmission of HDMI computer-video images up to 3840x2160 resolution. Designed specifically for AV systems, the extender includes many integrator-friendly features such as an EDID emulation, mode, RS-232 control,

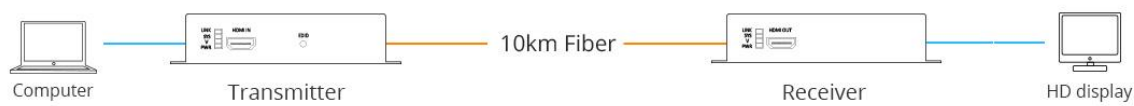
and real-time system monitoring.

The 4KHDMIRS is applicable to digital signage, LED signboards in streets and in stadiums, medical imaging equipment, remote monitor for traffic, industrial, military control, LCD, projector, plasma display connection, large video wall system and wherever 4K full-bandwidth uncompressed video or end-to-end electrical isolation are essential.

Highlights

- Supports HDMI 1.4 and compatible with DVI 1.0
- Supports 3840*2160@30Hz resolution with color depth up to 24 bits/pixel
- Supports HDMI bit-rates up to 10 Gbps total
- Support 3D TV pass-through
- Support EDID pass-through
- LPCM 7.1, Dolby® TrueHD, and DTS-HD Master Audio™
- Plug and Play
- Built-in EQ(Receiver)
- Low RFI / EMI profile for sensitive applications
- Color depth up to 24 bits/pixel
- Surface-mountable

Connection Diagram



Technical Data

Parameter	Value
PC Max Resolution	3840 × 2160@30Hz
Signal Type	HDMI
Video Interface	(1) HDMI Type A Female
Video Standard	HDMI1.4 , DVI1.0
Optical Connector	LC
Fiber Transceiver	(1) SFP+

Parameter	Value
EDID Compatible	Yes
3D TV	Yes
Fiber Type	Single fiber
Mode Type	Single mode
Distance	10km
HD-DVD Input Max Resolution	720p/1080i/1080p/120Hz
Color Bit Depth	24 bits per color
Max Video Data Rate	10Gbps
Input/output TDMS	1.65Gpbs
Input/output TDMS Power Level	1.2volts p-p
Input DDC Level	5volts p-p (TTL)
Nominal Peak Wavelength	1310nm
Output Optical Power	-9.5~-3dBm, average @1310nm
Receiver Sensitivity	-4 dBm, average @1310nm; -23dB max
Output Modulation Amplitude	180μW
Input Modulation Amplitude	≤15μW
Relative Speed	-116 DB/Hz
Return Loss	≤10 dB
Rate of Transmission	10Gbps
Power Consumption	10W(max)
Power Voltage	5 VDC

Technical Data

Parameter	Value
Operating Temperature	-40°C~+70°C
Storage Temperature	-60°C~+80°C
Operating Humidity	5% to 80% (non-condensing)
Storage Humidity	5% to 95% (non-condensing)
Construction	Sheet Metal
Dimensions (HxWxD)	5.1" x3.1" x1.1" (130mm x 79 mm x 28mm)
Product Warranty	1 Year

Ordering Information

ID	Description
#93420	4K HDMI Extender Set with Audio, EDID and RS232 via Single LC Fiber for 10km
#93418	4K HDMI KVM USB2.0 Extender Set with Audio and EDID via Single LC Fiber for 10km
#93421	4K DVI Extender Set with Audio, EDID and RS232 via Single LC Fiber for 10km
#93419	4K DVI KVM USB2.0 Extender Set with Audio and EDID via Single LC Fiber for 10km