HDMI Fiber Media Converter

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Variants

Fiber FC 20km Fiber SC 20km OFC SC - KVM 20KM

Details

The **HDMI Extender Over Fiber** is a commercial-grade video transmission solution designed for long-distance, stable, and high-quality HDMI signal extension over optical fiber. It supports flexible network configurations including point-to-point, point-to-multi, and multi-to-multi transmission modes.

With support for **1080P @ 60Hz video**, embedded audio, analog audio, reverse IR control, KVM keyboard/mouse control, HDMI loop-out, EDID transparent transmission, and TCP/IP network switching, it is ideal for CCTV monitoring, LED walls, conference rooms, classrooms, control centers, and commercial AV systems.

Resolution **1080P @ 60Hz**
Fiber Distance **20km SM**
Max Nodes

255

Control

IR + KVM

Key Features

? HDMI Video Transmission Over Optical Fiber

? Supports 1920 × 1080P @ 60Hz Resolution

? Point-to-Point / Point-to-Multi / Multi-to-Multi Modes

? Supports Up to 255 Devices in Network

? Single Mode and Multimode Fiber Support

? Reverse IR Control Supported

? KVM Keyboard & Mouse Control Supported

? HDMI Loop Out for Local Monitoring

Technical Specifications

Category	Specification
Product Type	HDMI Extender Over Fiber

Category	Specification
Application	Video Transmission, CCTV, LED Wall, Conference, Education
Video Resolution	Up to 1920 × 1080P @ 60Hz
Compatibility	Backward Compatible with Lower Resolutions
Transmission Type	Optical Fiber + TCP/IP Network
Transmission Mode	Point-to-Point / Point-to-Multi / Multi-to-Multi
Maximum Nodes	Up to 255 Devices
Device Type	Transmitter (TX) + Receiver (RX)

Optical Specifications

Parameter	Specification
Fiber Type	Single Mode / Multimode
Transmission Distance	MM: Up to 1km / SM: Up to 20km / Optional up to 120km
Fiber Connector	SC Default, FC / LC / ST Optional
Wavelength	1310 – 1550 nm
TX Power	> -8 dBm
RX Sensitivity	> -26 dBm

Audio, Control & Network Features

Protocol Support	TCP/IP over Ethernet Switch
Audio Support	24-bit Embedded Audio + 3.5mm Analog Audio
Audio Function	Audio Embed / De-embed
IR Control	Reverse IR Supported
KVM Function	Keyboard & Mouse Control Supported
HDMI Loop Out	Supported for Local Monitoring
HDCP	Supported with Decryption Engine
EDID	EDID Transparent Transmission
Protection	Built-in ESD Protection
Installation	Plug & Play

Applications

- CCTV Monitoring
- LED Video Walls
- Conference Rooms
- Classrooms & Education Systems
- Control Rooms
- Digital Signage

Hotels & Commercial AV

Long-Distance HDMI Transmission

Note:
For long-distance transmission, please select the correct fiber type and optical distance option. SC is the default connector, while FC, LC, and ST can be selected as optional fiber connector types.

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