



4K HDMI Fiber Optic Extender

Description:

BY-HDMI-320 includes a transmitter and a receiver, which is a high-speed, HDCP compliant fiber optic transport system capable of distributing high resolution 4K HDMI or DVI signals over fiber cable while maintaining flawless image quality. An 4K HDMI input signal from a source device such as a set-top box or Blu-Ray player is converted into light pulses by an optical transmitter module for transmission over two (2) strands of fiber optic cable. On the display side, an optical receiver module converts the light pulses back to an 4K HDMI signal for display on a monitor or projector.

Application:

BY-HDMI-320 supports optical links using either multi-mode or single-mode fiber. These features make the equipment a powerful solution for digital display applications that require flawless signal quality over extremely long cable runs..

Features:

- 1, Supports 4K (UHD) resolution formats up to 4096x2160 / 24p, 30p
- 2, Max extension distance 300M(OM3 MM fiber)/10KM(SM fiber)
- 3, Supports 1080p resolution with color depth up to 16 bits/pixel
- 4, Supports 4K HDMI bit-rates up to 3.4 Gbps/color, 10.2 Gbps total

SPECIFICATION

Performance:	
Compliance	DVI v1.0, HDMI v1.4, HDCP v1.4
Maximum Pixel Clock Frequency	Supports pixel clock rates up to 340 MHz
Maximum Video Bit Rate	Supports digital signal bit rates up to 3.4 Gbps per color
Supported Color Depth	Supports 1080p resolution with up to 16 bits/pixel
Digital Audio Support	Dolby Digital, Dolby Digital Plus, Dolby True HD and DTS-HD Master Audio
Supported HDTV Formats	Supports all HDTV resolutions including 1080p, 2K and 4K (UHD) formats
Supported PC Resolutions	Supports resolutions up to 4096x2160 / 24p, 30p
Optical:	
Optical Transmitter	Laser Source: 850nm VCSEL/ 1310nm DFB / 1550nm DFB
Optical Receiver	PIN Photo Diode O/E Converter
Fiber Cable Type / Max. Length	50/125 μ OM3 MM fiber/ 300 meters 9/125 μ SM optical fiber / 10KM
Connections:	
HDMI Input / HDMI Output	19-pin female HDMI connectors
Optical Input / Output	2x female LC optical connectors
Mechanical:	
Construction	Extruded Aluminum enclosure with black anodized finish
Dimensions	104 mm x 104 mm x 28 mm
Weight	700g per pair
Environmental:	
Operating Temperature	0° to +50° C
Storage Temperature	-20° to +70° C
Humidity (storage / operating)	10% to 90% (non-condensing)

Power Requirements:	
Power Source	Both Tx and Rx units must be powered using the supplied external AC power adapters
External AC Power Adapter	Input: 100~240VAC / 50-60Hz, 0.5A Output: 5VDC, 2.0A
Maximum Power Consumption	TX Unit: 3.5 watts RX Unit: 3.5 watts

Panel And Connection diagram:

