



Introduction

This is an uncompressed HDMI2.0 4K60 Fiber Extender, the resolution can up to 4096*2016@60Hz 4:4:4, the bandwidth is 18GBPS, compatible with both single-mode and multi-mode fiber optic cable, the connector is using the LC type.

This 4K60 fiber optic extender is using CWDM technology with 6 wavelength lasers. The data rates of the 1270nm/1290nm/1310nm/1330nm lasers are 6Gb/s, these 4 CWDM lasers transmit the HDMI TMDS signal from TX to RX unit, The 1490nm/1550nm laser data rate is 1.25Gb/s, which transmit the EDID, HDCP2.2, IR, CEC and RS232 bidirectionally. This 4K60 Fiber Optic extender also supports the HDR and Dolby Vision.

Features

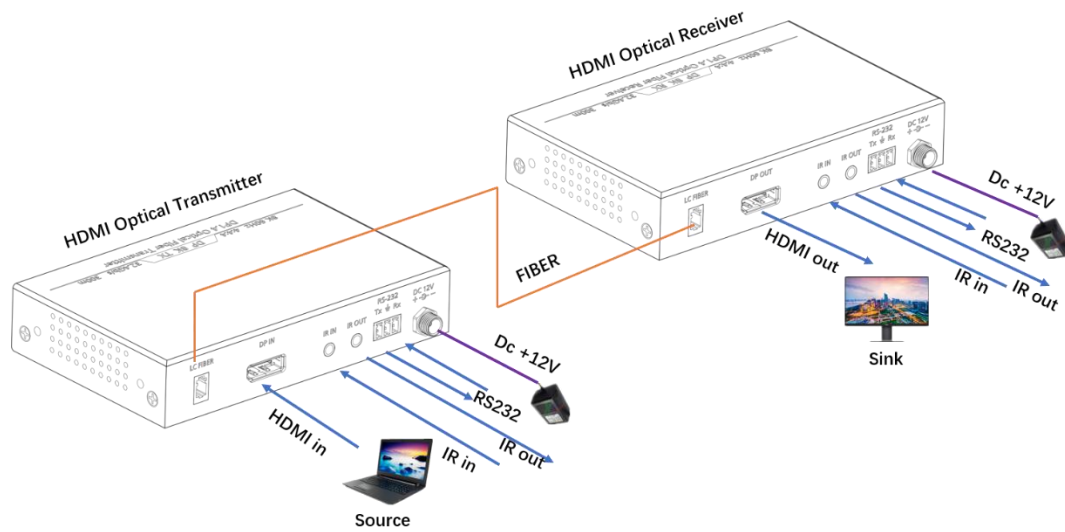
- Using the CWDM Single Fiber Technology.
- With 1270/1290/1310/1330/1490/1550nm DFB lasers inside
- Compliant with HDMI2.0, HDMI1.4, HDCP2.2
- The distance up to 3 KM over one single-mode or OM3 multi-mode Fiber Cable
- Uncompressed resolution 4096x2160@60Hz/4:4:4, 18Gb/s(600M Hz pixel clock);
- 1xLC Fiber Connector;
- Bi-directional RS-232 and IR extension;
- Zero frame delay;
- Supports HDR and Dolby Vision.

Specification

	Parameter	Specifications
Resolution	4K60Hz	4096x2160@ 60Hz (4:4:4)
Components	Laser Diodes	1270/1290/1310/1330nm 10Gb/s CWDM DFB Lasers.

		1490nm/1550nm 1.25Gb/s CWDM DFB lasers
	Photo Diodes in Rx Module	1100nm~1620nm PIN Photo Detector
	WDM filter	1270nm/1290nm/1310nm/1330nm/1490nm/1550nm filter
Electrical	Input and Output Signals	TMDS Level (complying with HDMI2.0)
	Data Transfer Rate (Graphic Data)	Max. 10.0Gbps
	Maximum Video Bit Rate	18Gb/s
	Total Jitter at the end of Rx output	Max. 0.6UI
	Skew inter-channels	Max. 2ns
Optical	Link Power Budget	Min 8dB
Mechanical	Module dimension (mm)	162WX85LX26H
Connector	Optical Connector	1X LC connector
	Recommended Fiber Cable	OM3 MM Fiber or Single-mode Fiber
Extend Distance		3 Km

Application Diagram



*Picture for illustration purpose only