



## Introduction

This fiber optic extender consists of transmitter and receiver, with a mini chassis and single core LC connectors, it allows to be used in a narrow space but for a long distance transmission applications. And the resolution can up to 3840\*2016/30Hz (YUV 4:4:4) or 3840\*2016/60Hz (YUV 4:2:0), it also can support the HDMI 1.4 and HDCP1.4 compliant standard, the transmission distance can up to 300m over OM3 MMF and SMF.

## Features

- Resolution up to 3840\*2160/30Hz(Y:U:V 4:4:4) or 3840\*2160/30Hz(Y:U:V 4:2:0)
- Distance can up to 300 meters over OM3 MMF or SMF Fiber
- Support HDMI1.4 and HDCP compliant
- LC connector, use 1-core OM3 MM Fiber or SM fiber cable
- Micro USB-B power connector
- Data security with negligible RFI/EMI emissions
- MINI chassis for narrow space applications

## Specification

	Parameter	Specifications
<b>Resolution</b>	4k*2k 30Hz	3840x2160/30Hz (YUV 4:4:4)
	4k*2k 60Hz	3840x2160/60Hz.(YUV 4:2:0)
<b>Components</b>	Laser Diodes in Tx Module	1310nm FP laser and 1550nm PIN PD
	Photo Diodes in Rx Module	1550nm FP laser and 1310nm PIN PD
	WDM filter	Integrated 1310nm/1550nm filter
<b>Electrical</b>	Input and Output Signals	TMDS Level (complying with DVI1.0)
	Data Transfer Rate (Graphic Data)	Max. 3.4Gbps
	Maximum Pixel Clock Frequency	340Mb/s
	Maximum Video Bit Rate	10.3Gb/s
	Total Jitter at the end of Rx output	Max. 309 ps
	Skew inter-channels	Max. 6ns

<b>Optical</b>	Link Power Budget	Min 8.5dB
<b>Mechanical</b>	Module dimension (mm)	59.5LX20.0WX10.5H
<b>Connector</b>	Optical Connector	1X LC connector
	Fiber connector	OM3 MM Fiber or Single-mode Fiber

### Application

With the mini chassis, it's a good fit for the narrow space applications, it can be widely used in the rental, meeting room or other long distance transmission distance applications.

### Connection diagram

