LM-THF123D

DVI Fiber Optic Extender

User Manual

1. Description

The DVI Fiber optic extender provides extension of DVI and 3D signals long distances over one fiber optic cable, it supports high resolution up to 4K*2K, EDID copy/pass-thru function. The extender can use for a wide range of applications requiring long distance transmission of high resolution with high quality by its good stability and powerful security.

2. Features

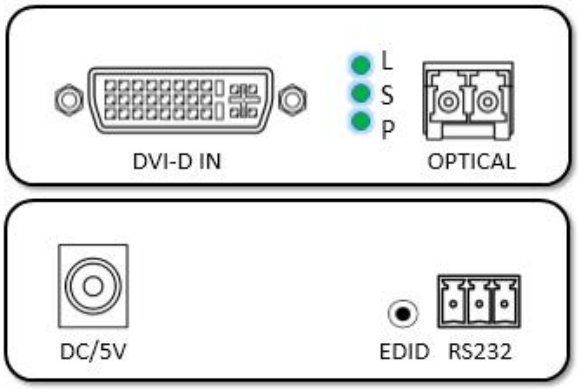
- Transmits DVI video signals up to 2km-10km over a pair fiber optic cable;
- Support video resolution up to 3860*2160@30Hz, 3D signal;
- Support copy EDID copy/pass-thru, can match many kind display device;
- Compliance with HMDI 1.4 standard;
- High compatibility, can auto-match source and display device;
- Built-in automatic adjustment system, make the image smooth, clear and stable;
- Built-in ESD protection system;
- Simple to install, plug and play;

3. Specifications

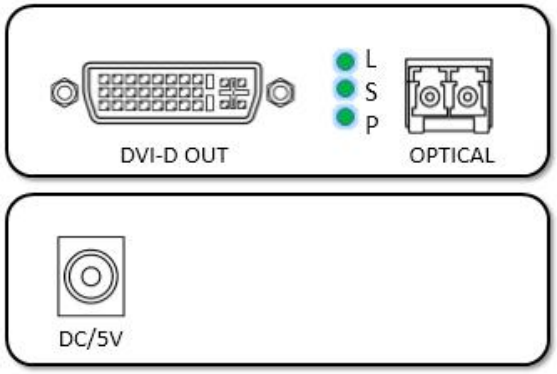
Parameter		Description
Video	Standards	DVI 1.0
	Maximum pixel clock	225MHz
	Maximum data rate	6.75Gbps
	Resolution range	Up to 3840*2160@30Hz
	Connector	DVI interface
	Impedance	100Ω
Optical fiber	Interface	SFP model – LC connector
	Fiber type	Single-mode
	Wavelength	Single-mode 1310nm
	Interface bandwidth	10Gbps
	Transmission distance	Single-mode fiber: standard 2km ; maximum 10km
Other	Power supply	The power adapter: DC 5V/2A
	Power dissipation	MAX 5W
	Temperature	Operating: -5℃ ~ +70℃
	Humidity	Operating: 5% ~ 90%
	Dimension	94.5*73*26mm
	The warranty	1 year free warranty

4. Panel

Transmitter:



Receiver:



Port name	**Description**
DVI IN/OUT	DVI signal input/output
EDID	EDID Copy button, Press 3 seconds, copy EDID from DVI IN display device to system .If DVI IN interface no display connect, restore default EDID.
DC/5V	Power adapter socket
FIBER	SFP model --- LC connector
LED indicator	**Description**
L	Optical fiber signal connection indicator
S	Video signal connection indicator
P	System power indicator

5. Package list

- DVI optical fiber transmitter .....1 pcs
- DVI optical fiber receiver ..... 1 pcs
- Fiber optic module .....2 pcs
- Power adapter .....2 pcs
- User manual ..... 1 pcs

6. Installation

1. Connect an DVI cable between the DVI input port of transmitter and the DVI output port of the video source,
2. Connect the DVI output port of receiver to the display device with DVI cable,
3. Connect the transmitter optical port to the receiver optical port using one fiber optic cable.
4. Connect the provided DC power supplies to the power socket of the transmitter and the receiver,

7. Diagram