HDMI 2.0 Fiber Optic Extender

User Manual

1. Description

The HDMI Fiber optic extender provides extension of HDMI signals long distances over one fiber optic cable. It supports high resolution up to 3840*2160@60Hz. 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 HDMI video signals up to 1-20km over a pair fiber optic cable;
- Support video resolution up to 384^{i}0*2160@60Hz signal;
- Supports screen formats YUV444 and RGB444;
- Compliance with HDMI 2.0 and HDCP 2.2 standard;
- Supports RS232 two-way transmission;
- Support USB keyboard and mouse;
- Support for embedded audio input and output;
- Supports bidirectional transmission of infrared signals;
- High compatibility, can auto-match source and display device;
- Built-in automatic adjustment system, make the image smooth, clear and stable;
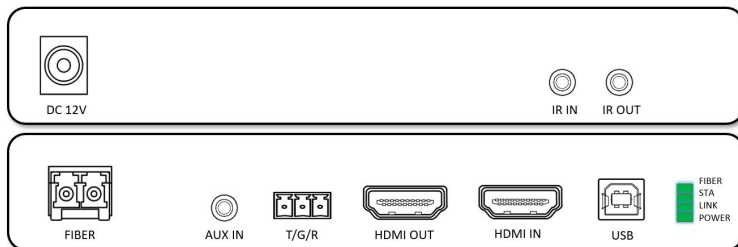- Simple to install, plug and play;

3. Package list

- HDMI transmitter 1pcs
- HDMI receiver 1pcs
- USB-A to USB-B Cable...................1pcs
- IR transmitter/receiver Cable.......1pcs
- Power adapter ....2 pcs
- User manual ....1 pcs

4. Specifications

Parameter		Description
Video	Standards	HDMI 2.0; HDCP 2.2
	Maximum pixel clock	340MHz
	Maximum data rate	18Gbps
	Maximum resolution	3840*2160@60Hz
	Connector	HDMI-A
	Impedance	100Ω
Optical fiber	Interface	SFP model － LC connector
	Fiber type	Single-mode
	Wavelength	T-1310nm R-1550nm
	Interface bandwidth	2.5Gbps
IR	Interface	3.5mm earphone seat
	IR frequency	28Khz-61Khz
RS232	Interface	Industrial Terminal
	Signal Direction	duplexing
	Baud Rate	Self-adaptive Max: 115200bps
	Data Bits	8
Other	Power supply	The power adapter: DC 12V
	Power dissipation	MAX 13W
	Temperature	Operating: -5℃ ~ +70℃
	Humidity	Operating: 5% ~ 90%
	Dimension	123*82*23mm
	The warranty	1 year free warranty

5. Panel

Transmitter：

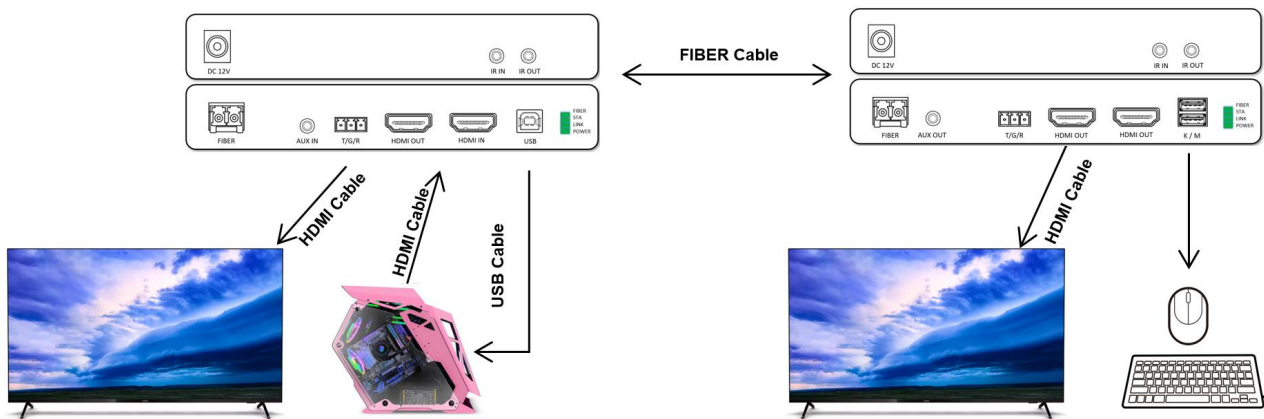Receiver：
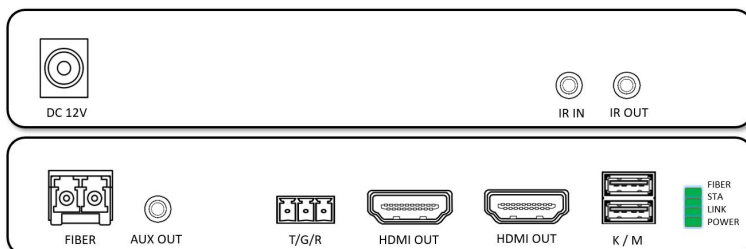
Port name	Description
IR IN/OUT	IR Input/Output
HD IN/HD OUT	HDMI Input/Output
UTP	RJ45 cable port
USB	USB Host is connected to your console or laptop
K/M	Keyboard/mouse
T/G/R	RS232 interface with TXD/GND/RXD at the terminal
DC12V	The power input
LED indicator	**Description**
FIBER	Detect the SFP fiber module
LINK	Normal state often off, flashing once: NO Link; flashing three times: forward video normal, reverse data abnormal; flashing four times: forward video abnormal, reverse data normal
STA	The light is always on when it is in normal condition
PWR	Power lamp。

6. Installation

1、 The HDMI signal source (such as set-top boxes, Blu ray DVD, computers, etc.) access to the HDMI transmitter ;

2、 Connect the receiver of the HDMI extender to the display device (such as a high definition TV, a tiled screen, etc.);

3、 The LC interface optical fiber line connects the Transmitter and the Receiver SFP optical fiber interface module;

4、 Will be the transmitter or the receiver connected to a power source, when the indicator lights up normally, normal operation of system.

7. Diagram

DC 12V IR IN IR OUT

FIBER AUX IN T/G/R HDMI OUT HDMI IN USB FIBER STA LINK POWER

FIBER Cable

DC 12V IR IN IR OUT

FIBER AUX OUT T/G/R HDMI OUT HDMI OUT K / M FIBER STA LINK POWER

HDMI Cable

HDMI Cable

USB Cable

HDMI Cable

8. Warranty

Please keep the user manual in a place where safety and easy to find so that you can read it immediately when meet problems.
safety instruction:

- Please do not disassemble this product by yourself because it doesn't including DIY function.

- Please don't make the product touch water in case damaged, because it is Not waterproof design.

- Please use dry cloth material when clean the product surface.

- Please do not use this product in the environment of too wet or too high temperature.

- Please avoid contact with corrosive substances.

- When there is damage or other physical damage to the product, please stop using and contact with customer service to get support.

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