1080P HDMI + 1Ch USB KVM + 1Ch RS232 + 1Ch Bidi Stereo Audio + GPIO over Fiber Extender

User Manual



1.Description

The LNK-KVM-HDMI-1D1BA1GO Fiber optic extender provides extension of HDMI signals long distances over one fiber optic cable, it supports high resolution up to 1080P, KVM, RS232, GPIO signal and external audio transmission 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 HDMI video signals and audio up to 20km over a single fiber optic cable;
- Support video resolution up to 1920*1200@60Hz, Support HDMI loop out;
- Special support 1600*1200 @60HZ
- Support USB keyboard and mouse;
- Support external bi-directional stereo audio;
- Support RS232 signal unidirectional transmission, baud rate self-adaptive;
- Support general-purpose input/output (GPIO) signal;
- Compliance with HDMI 1.4B 3D and HDCP 1.2 standard;
- High compatibility, can auto-match source and display device;
- Built-in automatic adjustment system, make the image smooth, clear and stable;
- Support EDID, Built-in ESD protection system;
- Simple to install, plug and play;

3.Package list

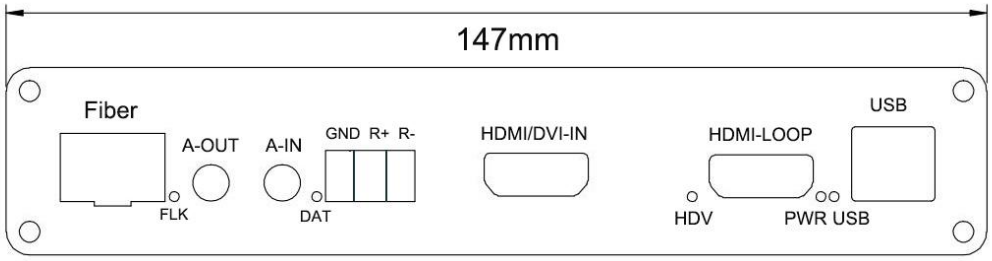
- HDMI KVM Optical Fiber Transmitter .....1 PCS
- HDMI KVM Optical Fiber Receiver .....1 PCS
- SFP Optic Module .....2 PCS
- USB Cable .....1 PCS
- Power Adapter .....2 PCS
- User Manual .....1 PCS

4.Specifications

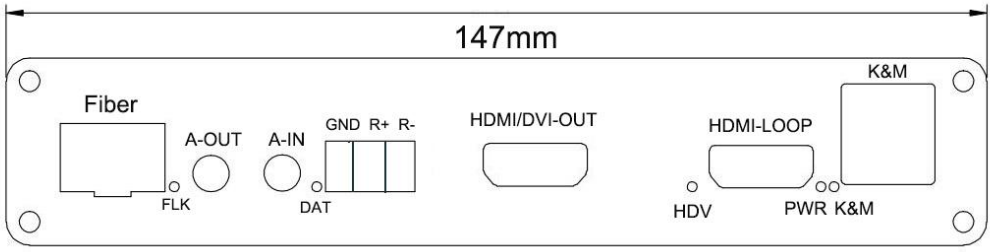
Parameter		Description
Video	Standards	HDMI1.4B 3D; HDCP1.4
	Maximum pixel clock	165MHz
	Maximum data rate	4.25Gbps
	Compliant	1080P@50/59.95/60Hz (Max 1920*1200@60Hz) 1080P@23.98/24/29.97/30Hz,1080i@50/59.94/60/Hz, 720P@23.98/24/29.97/30Hz, 720P@50/59.94/60Hz Special support 1600*1200 @60HZ
	Connector	Female HDMI type A
	Impedance	100Ω
	HDMI Cable Range	<5Meter (Resolution up to 1920*1200@60Hz)
Audio	Interface	3.5MM stereo audio
Optical fiber	Interface	SFP model – LC connector
	Fiber type	Single-mode
	Wavelength	1310nm
	Interface bandwidth	4.25Gbps
	Transmission distance	Single-mode fiber: 20km
KVM	Interface	To PC: USB (Type B) To keyboard and mouse: USB-A
GPIO	Interface	Industrial terminal
RS232	Interface	Industrial terminal
	Signal direction	Unidirectional
	Baud rate	Self-adaptive, Max：115200bps
	Data bits	8
Other	Power supply	The power adapter: DC 12V
	Power Consumption	< 10W
	Temperature	Operating: -20℃ ~ +70℃
	Humidity	Operating: 5% ~ 90%
	Dimension (LxWxH)	147 x 115 x 28 (mm)

5.Panel

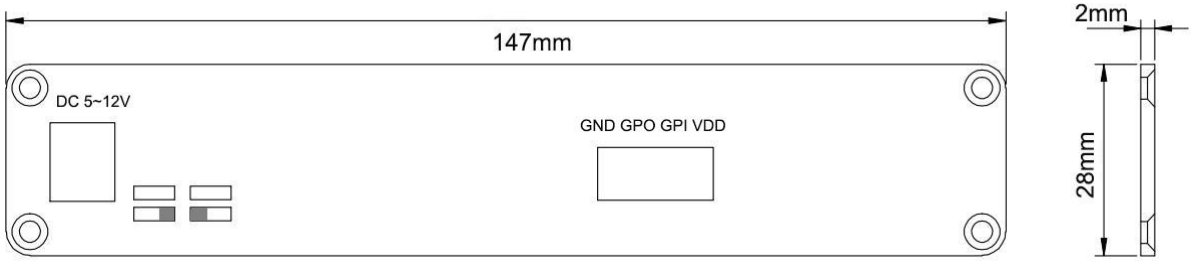
Front - Transmitter



Front - Receiver



Rear



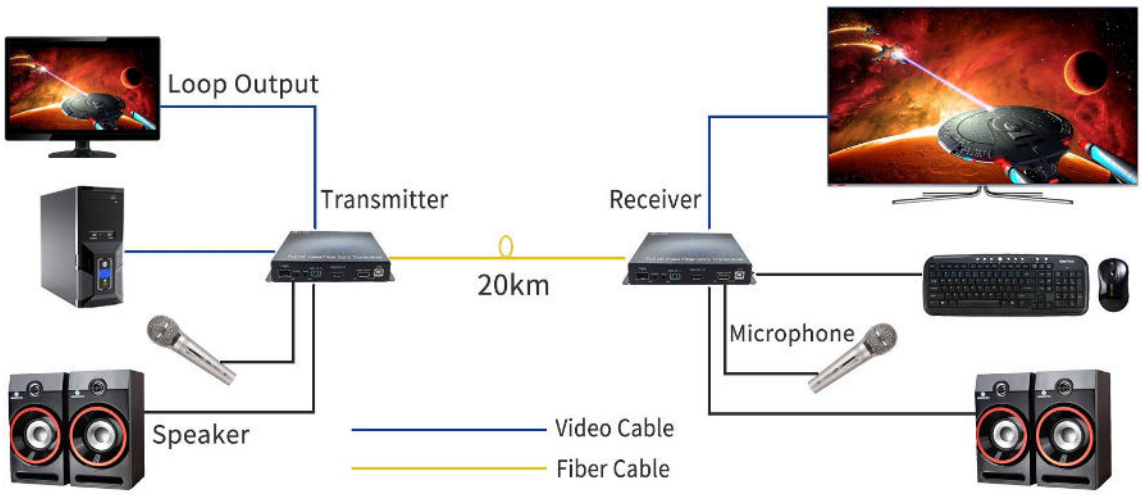
Note: Please keep the Dip switch at the original position when it's out of factory, or it will not work normally. (EMBED: Right side; DE-EMBED: Left)

Led Indicator	Description
HDV	HDMI Video signal connection indicator
FLK	Fiber Connection status
DAT	RS232 Data Transmission status
USB	USB Connection (To PC)
K&M	USB Keyboard and Mouse Connection
PWR	Power indicator

6.Installation

1. The HDMI signal source access HDMI Optical Fiber Transmitter
2. The HDMI Optical Fiber receiver connected to a display device (such as high-definition TV, splicing screen, etc.),
3. The LC interface optical fiber line connects the Transmitter and the receiver SFP optical fiber interface module,
4. The Transmitter and the receiver connected to the power, when the lamp lights up normally, normal operation of system.

7. Diagram



8. Warranty

Thank you very much for using our products.

The warranty time is one year and life-long maintenance. During this period, any belongs to under normal usage circumstance cause because of the product quality's problem of breakdown, our company will be responsible for giving free maintain.

Free maintain won't be given under the following circumstance:

- The malfunction and damaged caused by incorrect use, the unauthorized repairs and alteration;
- The damage caused by fire, flood, abnormal voltage, other natural disasters and secondary product damage;
- The product malfunction caused by not in accordance with the user manual operation;
- The malfunction and damaged caused by the other barriers(man-made factors or external device);