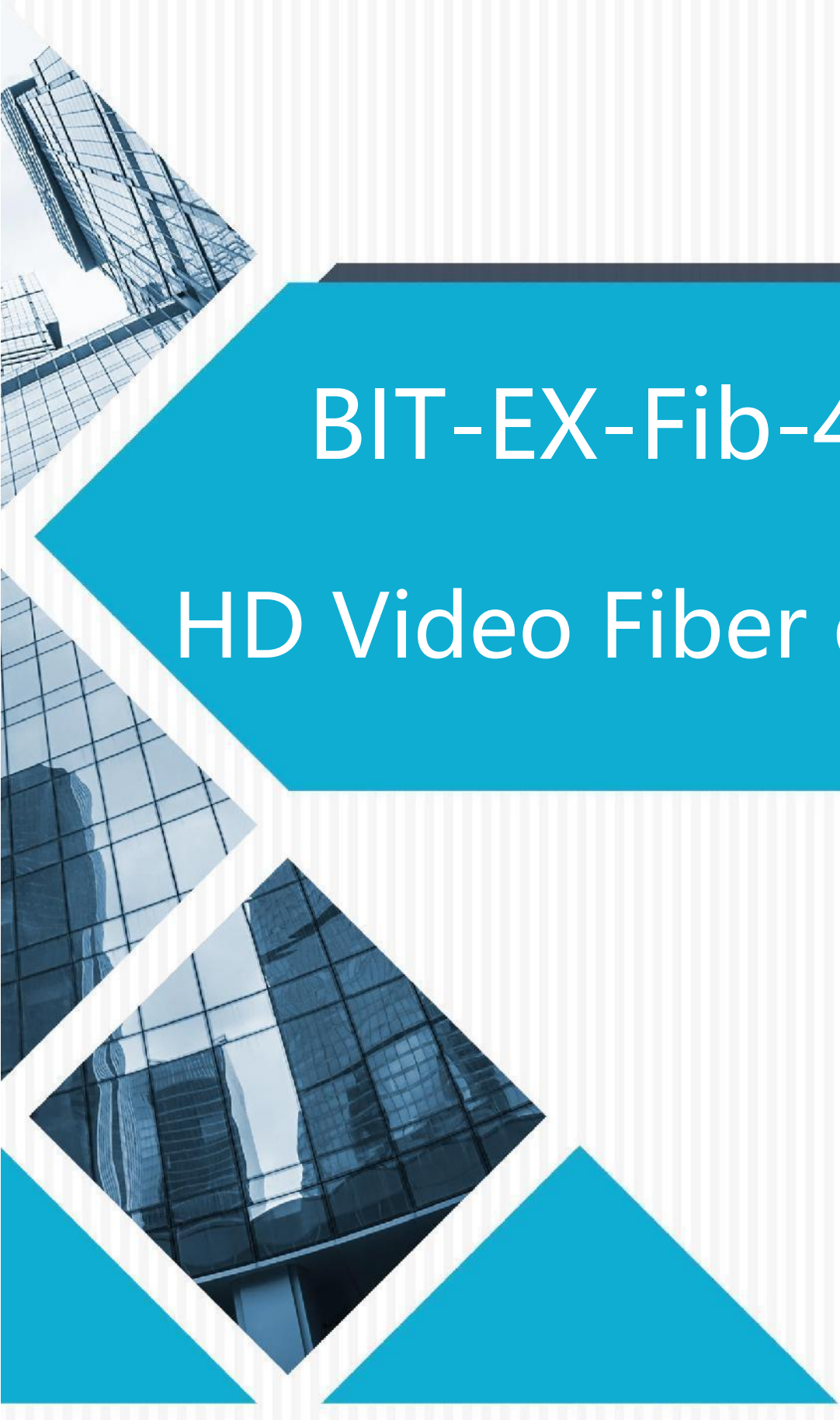
Shenzhen Bitvisus technology limited.



BIT-EX-Fib-4K-KVM

HD Video Fiber extender

Catalogue

1.Product overview

1.1. Product characteristics

(1) BIT-Ex-Fib-4K-KVM is a zero-delay ultra-low compression rate of long-distance transmitter, industrial appearance design with both texture and strong internal protection, and easy installation.

(2) Select the most advanced video processing chip in the industry, with powerful function, high picture reduction degree, long transmission distance and low power consumption.

(3) The farthest transmission distance of optical fiber can be supported to 10 km, the input and output of HDMI interface, the transmission without delay, no compressed picture without artifacts.

(4) The output supports regular video resolution customization, matching different display devices, with the maximum support resolution of 4096x2160@30Hz, down compatible with low resolution.

(5) Support for EDID locking and transmission function.

(6) Adopt pure hardware design architecture, without any software drive, plug and play.

(7) Support the two-way RS232 communication function.

(8) Support for USB-KVM function, with a dual USB interface connecting to the

mouse and keyboard.

(Note: The RS232 functions and USB-KVM functions are optional.)

1.2. Application scenario

It can be used in shopping malls, stadiums, exhibition halls, theme parks, conference rooms and other scenes.

2.size of product

Parameter name	BIT-Ex-Fib-4K-KVM	Define
video frequency	Support agreement	HDMI 1.4；HDCP 1.4
	Maximum clock frequency	Supported pixel clock frequencies up to 297MHz
	Maximum support resolution	4096x2160@30Hz
	joggle	HDMI joggle
	Maximum input / output distance for HDMI lines is recommended	Less than 5M

fibre-optical	Fiber interface	External SFP module-LC interface
	Fiber type	Single fiber / double fiber
	Fiber transmission distance	Single u-mode single fiber: 10KM Single u-mode double fiber: 10KM Multi-mode double fiber: 300M
RS232	joggle	Industrial terminal
	sense	Two-way transmission
	Baud rate	Adaptive, up to 115,200 bps
	data bit	Eight
other	source	DC 12V/2.0A
	power dissipation	7W
	temperature	Operating temperature: 0℃ ~ + 70℃
	humidity	Working humidity: 10%~90%
	outline dimension	136*85*26mm
	guarantee	1 year

3.operation declaration

3.1. Description of the equipment panel

A, 12V power input interface (connect to the power adapter).

B, Signal indicator light, with signal transmission, the indicator light will be on.

C. Power supply indicator lamp, and the upper power indicator lamp is on.

D, HDMI output indicator, which is the input and goes out.

E, HDMI input indicator, with HDMI line access, the indicator will be on.

F, HDMI input, HDMI signal connection via HDMI HD source, computer, Mi box, DVD, etc.

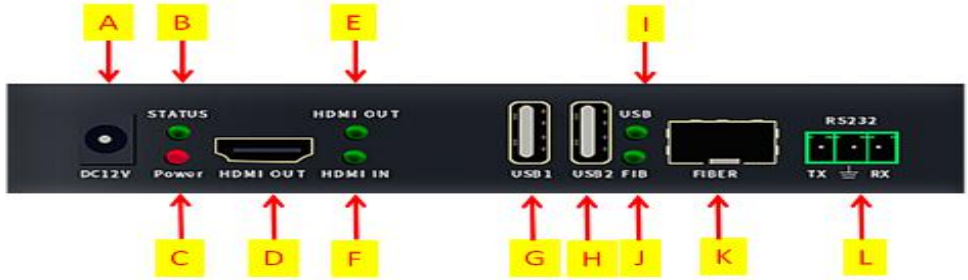
G, USB interface, connect to the computer via the public USB cable.

H, USB indicator light, with USB access, the indicator light will illuminate.

I. Fiber connection indicator light. The optical module of the transmitter and the receiving terminal is connected successfully, and the indicator light will turn on.

J, optical fiber module insert port.

K, RS232 serial port extension control, which supports two-way communication.



A, 12V power input interface (connect to the power adapter).

B, Signal indicator light, with signal transmission, the indicator light will be on.

C. Power supply indicator lamp, and the upper power indicator lamp is on.

D, HDMI output, HDMI display, connected via HDMI HD cable, TV, projection, etc.

E, HDMI output indicator, with HDMI line access, the indicator will be on.

F, HDMI input indicator, which is output and often goes out.

G, H, USB interface, connect to the mouse / keyboard.

I, USB indicator light, with USB access, the indicator light will illuminate.

J, fiber connection indicator, the optical module of the sender and the receiving end is successfully connected and the indicator will turn on.

K, optical fiber optic module insert port.

L, RS232 serial port extension control, which supports two-way communication.

3.2. Device connection for fiber optic transmission

(1) Signal source (computer, camera, DVD / DVE, hard disk player, etc.) The HDMI output connects to the HDMI input interface of the extender transmitter (Transmitter).

(2) Insert 2 optical modules into the "FIBER" interface between sender (Transmitter) and receiver (Receive) via optical fiber cable.

(3) Receiver terminal (Receive) is connected to the display equipment (LCD TV, projector, digital signage, advertising machine, etc.).

(4) Transmission terminal (Transmitter) and receiving terminal (Receive) are connected to 12V2A power supply respectively.

(5) If the display device has an image output, the connection is successful.

3.3. Device connection with KVM function

(1) Use a USB line at both ends, connect the USB port of the sender (Transmitter), and the other end to the USB port of the computer host.

(2) Insert 2 optical modules into the "FIBER" interface between sender (Transmitter) and receiver (Receive) via optical fiber cable.

(3) Connect the USB port of the keyboard and mouse to the two USB ports on the receiver (Receive).

(4) Transmission terminal (Transmitter) and receiving terminal (Receive) are connected to 12V2A power supply respectively.

(5) The keyboard and mouse can be operated remotely, so that the connection is successful and the KVM function is realized.

4.frequently asked questions

4.1. Connecting line problem

(1) Check whether the power supply is normal. It is recommended to use the 12V power cord equipped with this product.

(2) Check whether the optical fiber is plugged in (the optical module should be plugged in).

A. Single fiber optical module is connected, and the sender is used with the receiving end (blue and red bars).

The b. Double fiber optical module is connected with two optical ports in cross use (1 connection 2,2 connection 1).

4.2. Signal source problem

(1) Check whether the signal source is in normal output, and connect the signal source directly to the display equipment with normal use.

(2) If the computer graphics card output is directly connected to the extender device, check whether the computer recognizes the device, use the computer host mouse, right-click the desktop and select "Screen Resolution" detection.

4.3. Display the equipment problems

Detect whether the display can display the image normally, and connect the computer graphics card that can be output normally directly to the display device.

5.Additional instructions

not have