

BIT-Ex-IP-4K-KVM

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1.product description

1.1. Product Features

1. BIT-Ex-IP-4K-KVM is a long-distance transmitter with zero delay and ultra-low compression rate. The industrialized design has both texture and solid internal protection, and is easy to install.
2. Select the most advanced video processing chip in the industry, with powerful functions, high picture restoration, long transmission distance and low power consumption.
3. Support network IP transmission, support Gigabit switches, support one-to-one, one-to-many (32 receivers).
4. The farthest one-to-one transmission distance of the network port can support up to 100 meters, HDMI interface input and output, no delay in transmission, no compression and no artifacts.
5. The output terminal supports custom settings of conventional video resolutions to match different display devices. The maximum supported resolution is 3840x2160@30Hz, and it is backward compatible with low

resolutions.

6. Adopt pure hardware design architecture, without any software driver, plug and play.
7. Support two-way RS232 communication function.
8. Support USB-KVM function, dual USB interface to connect mouse and keyboard.
9. Support high-speed USB2.0 extension function, can support U disk reading and writing, radar, printers, etc.
10. Learn EDID, read the display EDID for easy use.

1.2. Application scenarios

It can be used in various scenes such as shopping malls, gymnasiums, exhibition halls, theme parks, conference rooms, etc.

2.Product Specifications

device name	BIT-Fib-IP-4K-KVM	Detailed description
video	supporting agreement	HDMI 1.4; HDCP 1.4
	maximum clock frequency	Supports pixel clock frequency up to 297MHz
	Maximum supported resolution	3840x2160@30Hz
	interface	HDMI interface
	Recommended HDMI cable maximum input/output distance	less than 5M
network port	cable	CAT5E/CAT6
	One-to-one network transmission	100M
	switch support (PS: gigabit switch, support port MAC address binding, each port need 800 MBPS bandwidth, port connect full is not recommended)	Support one-to-one, one-to-many

RS232	interface	Industrial terminal
	signal direction	Two-way transparent transmission
	baud rate	Adaptive, up to 115200bps
	data bits	8 bits
USB2.0	interface	High-speed USB2.0 interface
	support	Keyboard and mouse, U disk, radar, printer, etc.
other	power supply	DC 12V/2.0A
	Power consumption	6W
	temperature	Working temperature: 0℃ ~+70℃
	humidity	Working humidity: 10%~90%
	Dimensions	136*85*26mm
	Warranty	1 year

3.Instructions

3.1. Device panel description

(1) BIT-Ex-IP-4K-KVM_TX (transmitter) front panel (as shown in Figure 1), the panel parameter information is shown in Table 2:

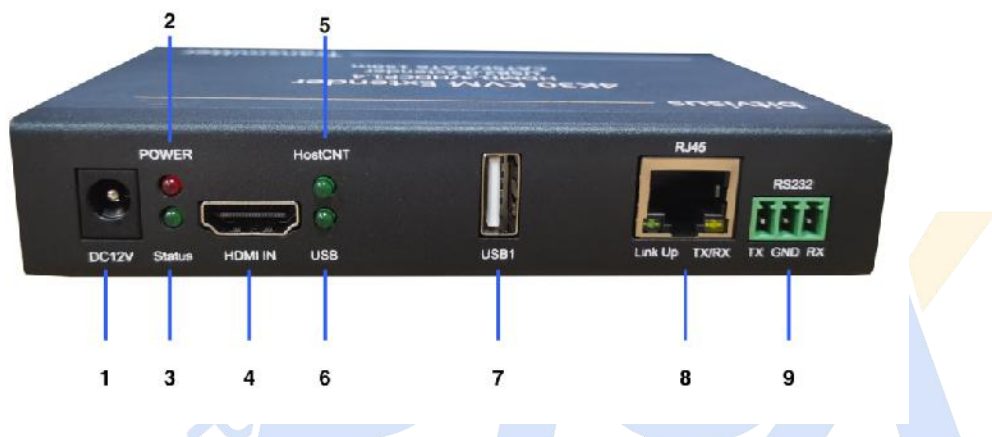
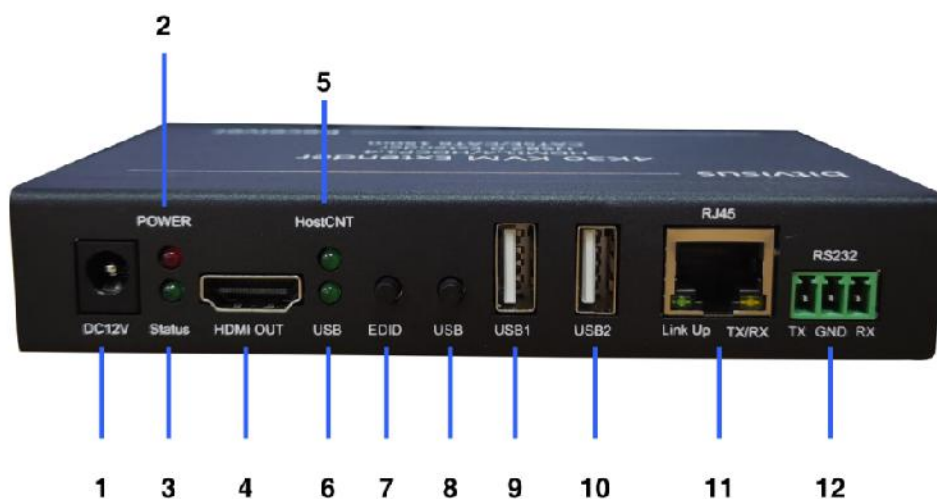


Figure 1: Product Transmitter Front Panel

serial number	name	describe
01	DC12V	12V power input interface (connect power adapter)
02	POWER	Power indicator light, power up indicator light on
03	Status	Signal indicator, the light is on and off, a stable video signal is detected, the light

		is flashing twice and a long light, no stable video signal is detected
04	HDMI IN	HDMI input, connect HDMI signal source, computer, millet box, DVD, etc. through HDMI high-definition cable
05	HostCNT	The light is always on:
06	USB	With USB access, the indicator light will be on
07	USB1	USB interface, connect to the computer through a male-to-male USB cable, the current connection status of USB2.0
08	RJ45	Cable interface
09	TX G RX	RS232 serial port extension control, support two-way communication

(2) The front panel of BIT-Ex-IP-4K-KVM-RX (receiving end) (as shown in Figure 3), and the panel parameters are shown in Table 4:



serial number	name	describe
01	DC12V	12V power input interface (connect power adapter)
02	POWER	Power indicator light, power up indicator light on
03	Status	Signal indicator light, there is signal transmission, the indicator light will be on
04	HDMI OUT	HDMI output, connect HDMI display, multi-screen expander, TV, projection, etc. through HDMI high-definition cable
05	HostCNT	The light is always on:
06	USB	The light is off: the device is receiving Ethernet data and processing video

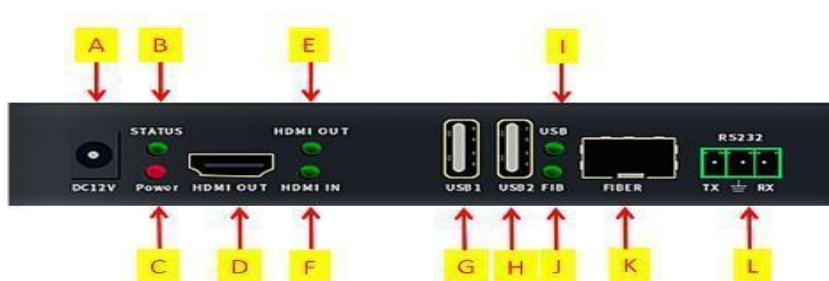
		signals; the light is always on: the device is processing video signals but not receiving Ethernet data
07	EDID	Short press for 1 second and the OSD screen will appear, Update EDID -> Baud rate -> IP address -> MAC address long press for 3 seconds to update the EDID
08	USB	Short press for 1 second will make USB request When the OSD encounters the Baud rate, short press for 1 second to change the rate, 115200 -> 57600 -> 38400 -> 19200 -> 9600 -> 4800 -> 2400 -> 1200
09	USB1	RX keyboard/mouse port, Hi-Speed USB2.0
10	USB2	RX keyboard/mouse port, Hi-Speed USB2.0
11	RJ45	Cable interface
12	TX G RX	RS232 serial port extension control, support two-way communication

Figure 3: Product Receiver Front Panel

3.2. Device connection for network IP and KVM functions

3.2.1. Device connection for realizing network IP transmission function

- (1) Connect the signal source (computer, DVD/DVE, notebook, etc.) to the HDMI input interface of the HDMI output connection extender transmitter (Transmitter).
- (2) Connect the "RJ45" interface of the transmitter (Transmitter) and the receiver (Receive) through a network cable.
- (3) The receiving end (Receive) is connected to the display device (LCD TV, projector, digital signage, advertising machine, etc.).
- (4) The transmitter (Transmitter) and the receiver (Receive) are respectively connected to 12V2A power supply.
- (5) If the display device has image output, the connection is successful.



3.2.2. Device connection for realizing KVM transmission function

- (1) Use a USB cable with male ends at both ends, one end is connected to the USB port of the transmitter (Transmitter), and the other end is connected to the USB port of the computer host.
- (2) Connect the "RJ45" interface of the transmitter (Transmitter) and the receiver (Receive) through a network cable.
- (3) Connect the USB ports of the keyboard and mouse to the 2 USB ports on the Receiver.
- (4) The transmitter (Transmitter) and the receiver (Receive) are respectively connected to 12V2A power supply.
- (5) If you can use the keyboard and mouse to remotely operate the computer, it means that the connection is successful and the KVM function is realized.

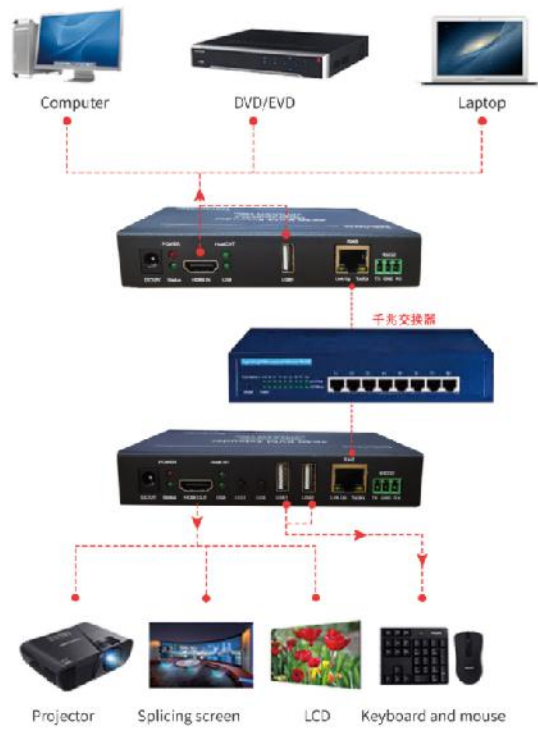


Figure 5: Product device connection diagram

4.common problem

4.1 , the problem of connecting line

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

(2) Check whether the network cable is inserted securely .

4.2 . Signal source problem

(1) Check whether the output of the signal source is normal, and connect the signal source directly to a display device that can be used normally.

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

4.3 . Display device problem

Check whether the monitor can display images normally, and connect the computer graphics card that can output normally

to the display device directly.

5.Additional information

none

