

Matrix IP KVM

Model No. **KFH151S/KFH151E/KFH151L/KFH251S**



Product Description

- The IP HD digital KVM matrix extender is a highly optimized KVM extender. When it is connected point-to-point through Ethernet cable, the transmission distance can be up to 120m, and resolution up to 3840x2160@30Hz. The extenders of this series connected to a Gigabit network switch can form a matrix switching system which supports Point-to-Point (P2P) mode and Matrix mode. Without using the centralized management platform, it can independently form a network system and supports up to 40 units of senders and receivers; Otherwise, it supports up to 9999 units based on the network bandwidth. The matrix switching system allows seamless switching. It can connect, operate and control multiple signal sources (such as servers, workstations, cameras and video TV walls) without the centralized management platform.
- The matrix switching system allows computers and servers to locate in the central server room away from the workbench, which improve safety, reduce the temperature and noise of the working environment, and provide a quiet and friendly human-computer interaction environment.
- The video compression algorithm of IP HD digital KVM matrix extender perfectly combine the high quality image together with low latency (16ms/1080P@60Hz). The USB and video signals are transmitted through CAT5e/6/7 cable or optical fiber cable.
- The USB2.0 transparent transmission technology supports USB devices like touch screens, USB sound cards, printers, and USB storage devices.
- The initial administrator account: admin Password: admin

Product Features

- Support HDMI / USB2.0/Audio/Rs232
- Visually lossless compression transmission; ultra-low latency ($\approx 16\text{ms}@60\text{Hz}$); Typical transmission bandwidth: 50~300Mbps
- Support Graphical UI interface (Chinese and English)
- Support seamless, non-black-screen switching between PCs
- Support USB2.0 transparent transmission with transfer rate up to 12MB/s
- Support 1 channel RS 232 asynchronous serial port transmission
- Support analog and digital audio and microphone
- HDMI OUT loopback port on Transmitter (TX)
- Maximum resolution up to 3840x2160@30Hz
- Support POE on transmitter (KFH151E-TX)
- Support collaborative sharing Push & Get
- Supports single-mode and multi-mode optical fiber transmission.
- Support CAT5e/6/7 transmission. The longest point-to-point extension distance up to 120m
- Diversified connection:
 - ①Point-to-point connection allows 1 RX to control 4 PCs, or 4 RXs to share and control 1 PC;
 - ②Connect it to a standard Gigabit network switch (with IGMP multicast function) to form a matrix switching system. Without using of centralized management platform, it supports up to 40 units; With the centralized management platform, it supports up to 9999 units (RX & TX). Support network redundancy backup (optical port & network port)
- Support screen lock
- Support one administrator account and one User account
- Support multi-channel HDMI video synchronous switching
- (KFH251E-TX/KFH251E-RX)
 - Support VGA connection, local USB loop out, remote USB
- ON/OFF, remote switching on/off (KFH151L-TX/KFH151L-RX)

Specifications

Specifications	KFH151S/E_TX	KFH151S_RX	KFH151L_TX	KFH151L_RX	KFH251S_TX	KFH251S_RX
Connector	HDMI input	1	N/A	1	N/A	N/A
	HDMI output	1	1	1	1	2
	VGA input	N/A	N/A	1	N/A	N/A
	VGA output	N/A	N/A	N/A	1	N/A
	Power	12V	12V	12V	12V	12V
	LAN port	RJ45 x 1	RJ45 x 1	RJ45 x 1	RJ45 x 1	RJ45 x 2
	Optical Module	SFP+ x 1	SFP+ x 1	SFP+ x 1	SFP+ x 1	SFP+ x 1
	Microphone	3.5MM Stereo Jack (Green)	3.5MM Stereo Jack (Pink)	3.5MM Stereo Jack (Green)	3.5MM Stereo Jack (Pink)	3.5MM Stereo Jack (Green)
	Speaker	3.5MM Stereo Jack (Pink)	3.5MM Stereo Jack (Green)	3.5MM Stereo Jack (Pink)	3.5MM Stereo Jack (Green)	3.5MM Stereo Jack (Pink)
	Square USB	1	N/A	1	N/A	N/A
	USB 2.0	N/A	USB x 4	USB x 2	USB x 4	N/A
	POE	KFH151E_TX	N/A	N/A	N/A	N/A
	RS485	N/A	N/A	1	1	N/A
Maximum resolution	3840*2160@30Hz					
Connection cable	CAT5e/6/7 Or Optical Fiber Cable (mode is up to optical module))					
I/R value	DC12V / 2A					
Power consumption	6W	6W	6W	6W	12W	12W
Operating temperature	0 ~ 50 °C					
Storage temperature	-20 ~ 60 °C					
Humidity	0~80% RH, non-condensing					
Material	Metal					
Net weight (kg)	0.72 kg	0.72 kg	0.75 kg	0.75 kg	1 kg	1 kg
Product dmsion (W×D×H)	180mm x 123.5 mm x 44mm		180mm x 123.5 mm x 44mm		272 mm x 115.5 mm x 44mm	
Packing dmsion (W×D×H)	395 mm x 274 mm x 110mm		395 mm x 274 mm x 110mm		395 mm x 274 mm x 110mm	

Connection Diagram

