HDMI Digital KVM Extender over Fiber
(KFH101S)

Product Description

The KFH101S HDMI digital KVM extender delivers HD HDMI video, USB, RS232, and stereo audio signals up to 10km over fiber optic cable.

A complete set of KFH101S including Transmitter (KFH101S-TX) and Receiver (KFH101S-RX). The Transmitter is connected to a computer or server, and the receiver is connected to a display, keyboard, audio player and other USB devices.
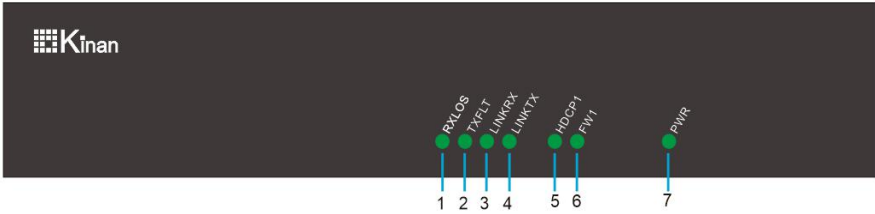
The KFH101S support single-mode and multi-mode optical fiber, the maximum transmission distance of single mode is 10km, and the transmission distance of multimode is up to 300m. It supports the transmission of 2 channel high-quality HDMI signals and has a wide range of applications.

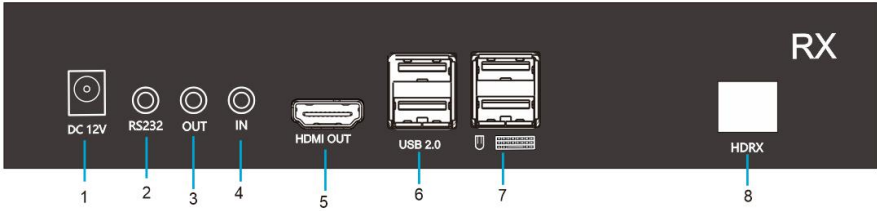*Note: The bandwidth of the optical module must reach 10Gbit/sec.*

Features

- Allows HDMI access to your computer from a remote console
- Support USB keyboard and mouse
- Uncompressed HDMI FHD video, resolution up to 4K@60Hz (YCbCr 4:2:0)
- Extends HDMI video, audio, USB, RS-232 signals over fiber optic cable
- The maximum transmission distance is vary depending on the fiber type, the maximum transmission distance of single mode is 10km, and the transmission distance of multimode is up to 300m.
- Support USB 2.0 – Supports a wide range of USB peripherals, such as encrypted U disk, face recognition and other USB devices.
- Support USB Hub, the number of USB ports can be expanded through USB Hub
- Support individual 2-channel stereo audio, 1 LINEIN + 1 LINEOUT
- Easy to install - no software required - connecting cables to the devices is all it takes
- Plug and play
- Support EDID transparent transmission
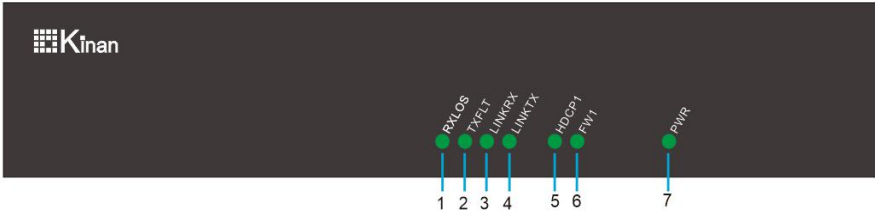
KFH101S_RX (Front View)

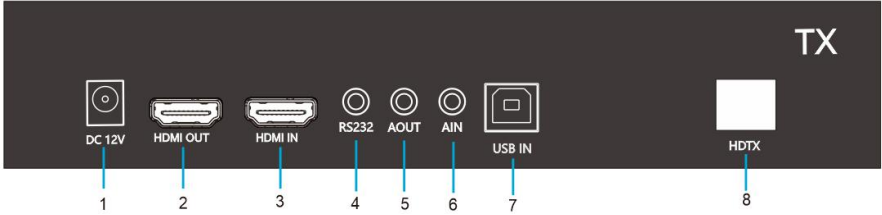| No.	Components	Description
1	RXLOS	SFP+ module signal receiving
2	TXLFT	The LED indicator that shows the SFP+ module has been connected, when the light is on, the SFP+ module is recognized.
3	LINKRX	Flashing: data is being transferred Off: The connection is unsuccessful
4	LINKTX	Flashing: data is being transferred Off: The connection is unsuccessful
5	HDCP1	HDMI device video status
6	FW1	HDMI device running indicator
7	PWR	Power indicator, indicate power status

KFH101S_RX (Rear View)

No.	Components	Description
1	DC12V	12V power connection port
2	RS232	Serial port
3	AOUT	Audio output
4	AIN	MIC input
5	HDMI OUT	Connect to HDMI monitor
6	USB2.0	Connect to USB peripherals
7	USB port	Connect to USB keyboard and mouse
8	HDRX	Connect to TX with fiber cable

KFH101S_TX (Front View)
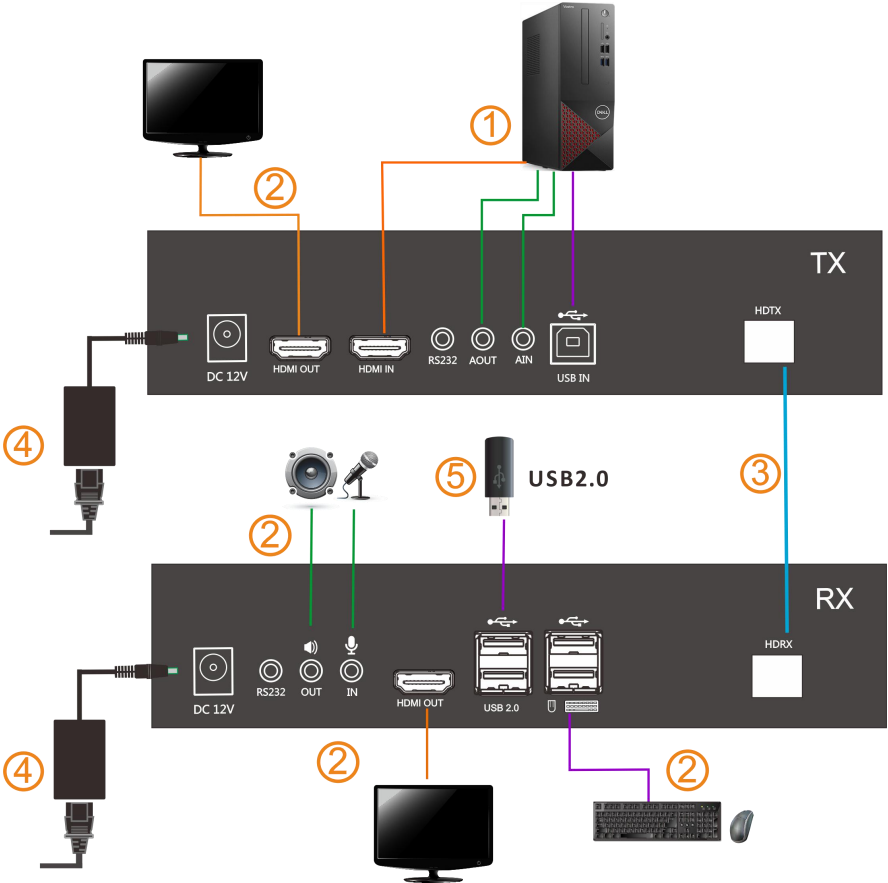

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5	HDCP1	HDMI device video status
6	FW1	HDMI device running indicator
7	PWR	Power indicator, indicate power status

KFH101S_TX (Rear View)

No.	Components	Description
1	DC12V	12V power connection port
2	HDMI OUT	Connect to HDMI out display
3	HDMI IN	HDMI video input
4	RS232	Serial port
5	AOUT	Audio output
6	AIN	MIC input
7	USB IN	Connect to the USB port of a computer
8	HDTX	Connect to RX with fiber cable

Connection Diagram

1. Connect the KFH101S_TX to the video port, USB port and audio port of a computer. (See ① from the above diagram)
2. Connect the KFH101S_RX to keyboard, mouse, monitor and audio device. (See ② from the above diagram)
3. Connect the transmitter (HDTX) to the receiver (HDRX) with fiber cable. (See ③ from the above diagram)
4. Power on the TX and RX unit. (See ④ from the above diagram)

Specifications

Function		KFH101S_TX	KFH101S_RX
Connector	HDMI Input	1	NA
	HDMI Output	1	1
	Power	12V	12V
	Fiber Module	SFP+ x 1	SFP+ x 1
	Microphone	3.5MM Stereo Jack (Pink)	3.5MM Stereo Jack (Pink)
	Speaker	3.5MM Stereo Jack (Green)	3.5MM Stereo Jack (Green)
	USB Type B	1	N/A
	USB 2.0	N/A	USB x 4
Resolution		4K@60Hz (YCbCr 4:2:0)	
Connection Cable		Fiber cable	
Power Input		DC12V / 2A	DC12V / 2A
Power Consumption		11.5W	10.5W
Operating Temperature		0 ~ 50 ℃	
Storage Temperature		-20 ~ 60 ℃	
Humidity		0~80% RH, Non-condensing	
Material		Metal	
Net Weight (kg)		0.8kg	0.8kg
Product Dimension (W × D × H)		214 mm x 113.5 mm x 44mm	
Package Dimension (W × D × H)		395 x 274 x 110mm	