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 application

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 Supports local (TX) HDMI interface loop-out
- 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 pla

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	9-12V	9-12V power connection port
2	RS232	Serial port
3	AOUT	Audio output
4	AIN	MIC input
5	HDMI OUT	Connect to HDMI monitor
6	USB	Connect to USB peripherals or keyboard and mouse
7	SFP+	Connect to TX with fiber cable

KFH101S-TX (Front View)
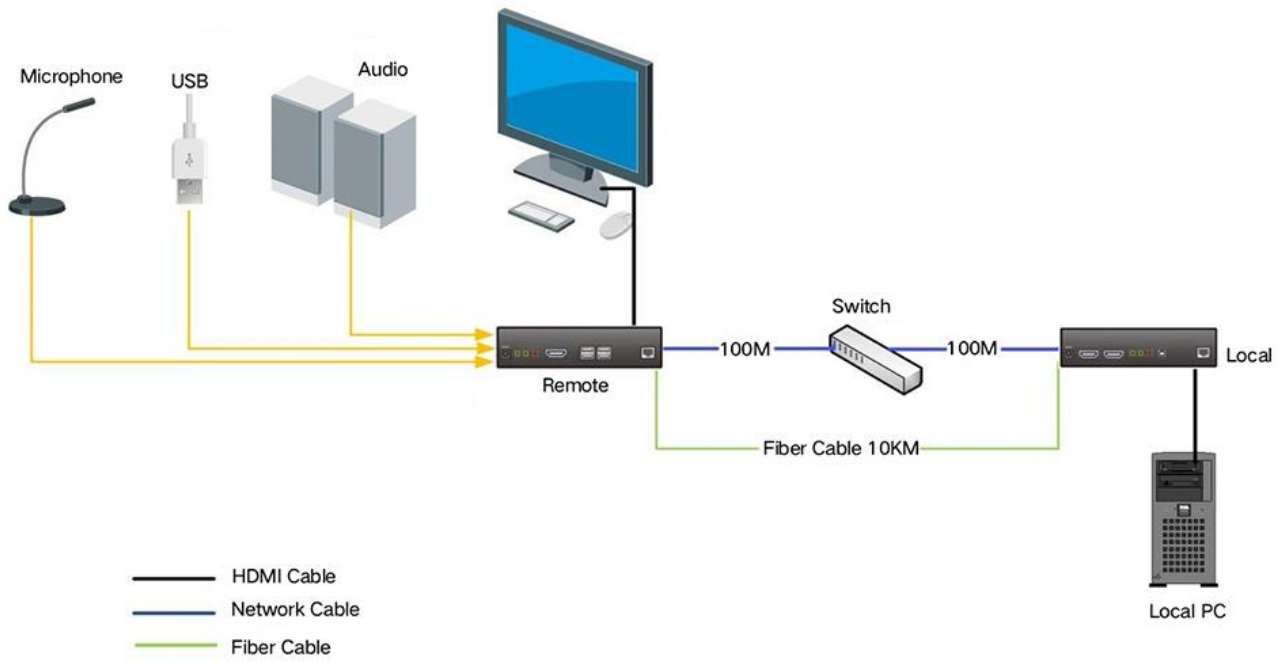

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KFH101S-TX (Rear View)

No.	Components	Description
1	9-12V	9-12V 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	Connect to the USB port of a computer
8	SFP+	Connect to RX with fiber cable

Connection Diagram

Microphone
USB
Audio
Switch
100M
100M
Local
Remote
Fiber Cable 10KM
Local PC

— HDMI Cable
— Network Cable
— Fiber Cable

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		9-12VDC	9-12VDC
Power Consumption		12W	12W
Operating Temperature		0—50 ℃	
Storage Temperature		-20—60 ℃	
Humidity		0—80% RH, Non-condensing	
Material		Metal	
Net Weight (kg)		0.63kg	0.63kg
Product Dimension (W × D × H)		218 mm x 115 mm x 40mm	