HDMI over Fiber KVM Extender (KFH101S)

User Manual

Product Description

The KFH101S USB HDMI over fiber KVM extender integrates the latest HDBaseT™ technology and delivers HD HDMI video, USB and stereo audio signals up to 300m by using fiber optics; if the cable type is single mode, the transmitting distance is up to 10km.

A complete set of KFH101S including Transmitter (KFH101S-TX) and Receiver (KFH101_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.
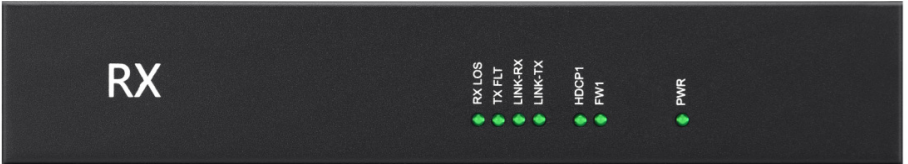
The KFH101S enables remote high-speed access to a single computer at HD display resolution, while improving workplace ergonomics and separating employees from a noisy working environment.

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

Features

● Uses one fiber optic cable to connect the transmitter and receiver units

● Allows access to your computer from a remote console up to 300m by using multimode type cable, if the cable type is single mode, transmitting distance is up to 10km.

● Superior HDMI video quality of up to 3840 x 2160 @60Hz.

● Transparent USB 2.0 – Supports a wide range of USB devices including keyboards, mice, mass storage devices and printers. It provides 4 USB ports on the Receiver and 1 USB on the Transmitter.

● Support individual 2-channel stereo audio, 1 LINEIN + 1 LINEOUT.

● RS232 serial port – support connection to a serial terminal.

● Support local HDMI output

● Easy to install - no software required - connecting cables to the devices is all it takes
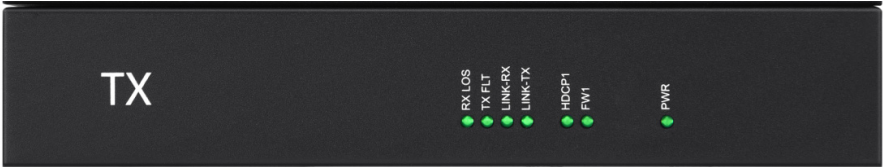
● Plug and play

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)

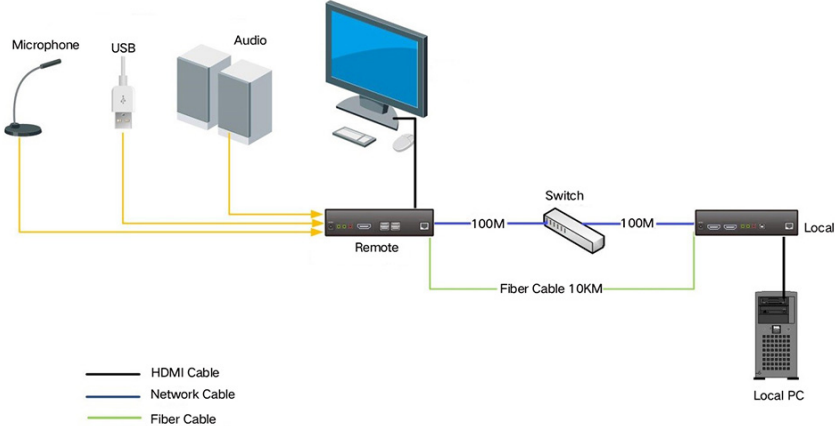| No.	Components	Description
1	9-12V	9-12V power connection port
2	RS232	Serial port
3	AOUT	Audio output
4	AIN	MIC input
5	HDMI OUT	Connect to HDMI monitor
6	USB	Connect to USB peripherals or keyboard and mouse
7	SFP+	Connect to TX with fiber cable

KFH101S_TX (Front View)

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_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

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	