

# HDMI FHD Digital KVM Extender over Fiber/Cat5 (KFH162S)



## Overview

The KFH162S HDMI digital KVM extender delivers FHD HDMI video, USB2.0, keyboard, mouse and stereo audio signals up to a remote desk over fiber optic cable or Cat5 cable.

A complete set of KFH162S including Transmitter (KFH162S-TX) and Receiver (KFH162S-RX). The Transmitter is connected to a computer or server, and the receiver is connected to a display, keyboard, mouse, audio player and other USB devices.

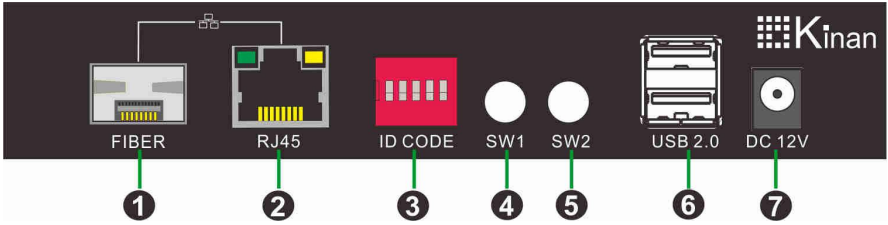
The KFH162S supports signal transmission over fiber optic cable or Cat5 cable, it supports single-mode and multi-mode optical fiber, the maximum transmission distance of single mode is 10km, for multimode the transmission distance is up to 600m. If you connect the KFH162S-TX and KFH162S-RX with a Cat5 cable, the transmitting distance is up to 150m. It supports the transmission of 1 channel high-quality HDMI signals and has a wide range of applications.

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

## Product Features

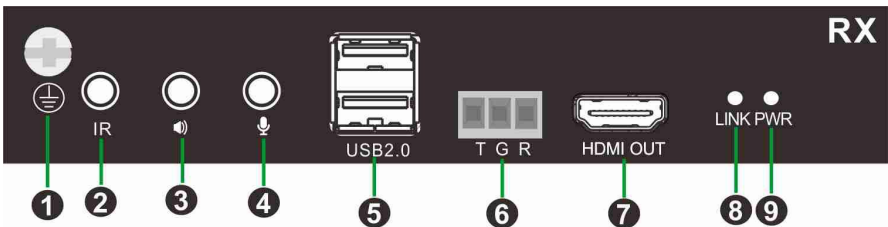
- FHD HDMI video transmission, resolution is up to 3840x2160@30Hz
- Supports 1000M LAN port
- Supports optical fiber transmission
- When using CAT5E cable for direct connection, the transmitting distance can reach 150m
- Supports USB 2.0 – Supports a wide range of USB peripherals, such as encrypted U disk, face recognition and other USB devices, connect via the built-in 4 USB hub
- Bidirectional Analog Audio: line in/out with microphone and headphone support
- Supports 1-channel asynchronous serial transmission
- Supports connect to a switch (1000M)
- Supports point-to-point dial-up connection

**KFH162S\_RX front panel**



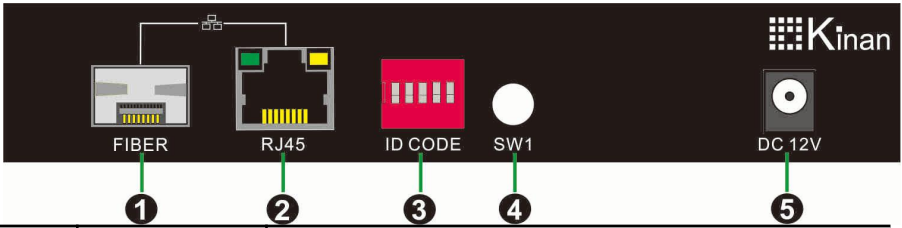
No.	Components	Description
1	FIBER	Optical port, plug this port with an SFP+ module
2	RJ45	RJ45 port, plug this port with a CAT5E cable
3	ID CODE	DIP switch for point-to-point DIP connection
4	SW1	Pushbutton 1
5	SW2	Pushbutton 2
6	USB2.0	Connect to USB peripherals
7	DC 12V	12V power connection port

**KFH162S\_RX rear panel**



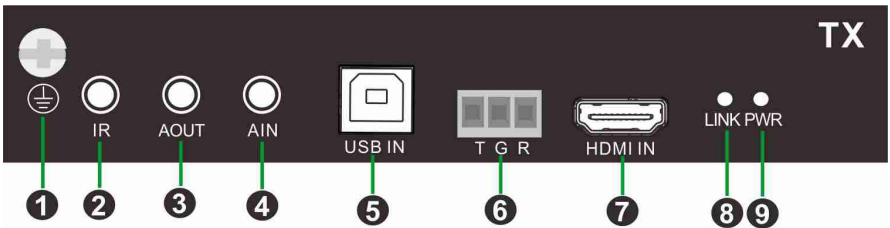
No.	Components	Description
1	Ground connection	Connect the device to the ground
2	IR	Reserved port
3	Audio	Audio output
4	Microphone	MIC input
5	USB2.0	Connect to USB peripherals
6	TGR	Serial port
7	HDMI OUT	Connect to a HDMI monitor
8	LINK	Connection status indicator
9	PWR	Power Indicator

## KFH162S\_TX front panel



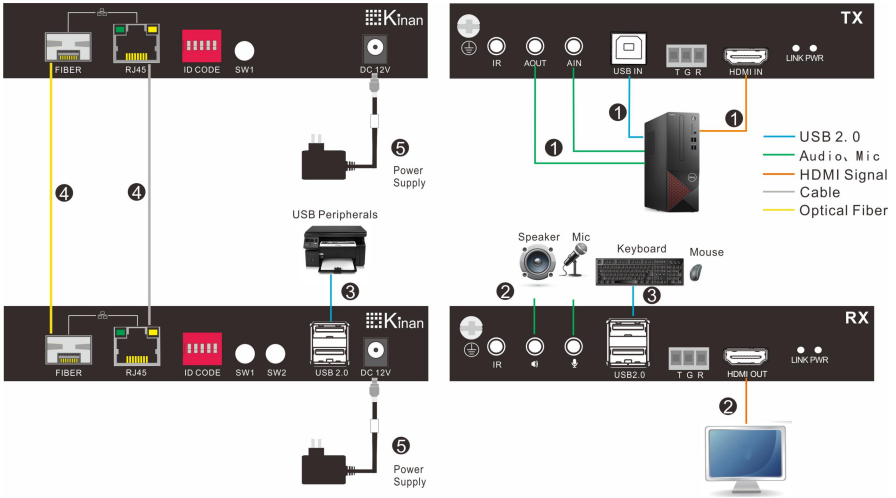
No.	Components	Description
1	FIBER	Optical port, plug this port with an SFP+ module
2	RJ45	RJ45 port, plug this port with a CAT5E cable
3	ID CODE	DIP switch for point-to-point DIP connection
4	SW1	Pushbutton
5	DC 12V	12V power connection port

## KFH162S\_TX rear panel



No.	Components	Description
1	Ground connection	Connect the device to the ground
2	IR	Reserved port
3	AOUT	MIC out
4	AIN	Audio in
5	USB IN	USB2.0 in
6	TGR	Serial port
7	HDMI IN	HDMI video input
8	LINK	Connection status indicator
9	PWR	Power Indicator

## Connection Diagram



1. Connect the KFH162S\_TX to the HDMI video port, USB port and audio port of a computer. (See ① in the above diagram)
2. Connect the KFH162S\_RX to keyboard, mouse, monitor and audio device. (See ② in the above diagram)
3. Connect the USB peripherals to the KFH162S\_RX. (See ③ in the above diagram)
4. Connect the transmitter and receiver interfaces via optical fiber or CAT5E cable. (See ④ in the above diagram)
5. Power on the transmitter and receiver. (See ⑤ in the above diagram)

**Specifications**

Function		KFH162S_TX	KFH162S_RX
Interfaces	HDMI in	1	NA
	HDMI out	NA	1
	Power	12V	12V
	SFP+ 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)
	LAN	RJ45	RJ45
	USB Type B	1	N/A
	USB 2.0	N/A	USB x 4
Resolution		3840x2160@30Hz	
Connection Cable		Fiber optical cable or Cat5/6 cable	
Power Input		DC12V /2A	DC12V / 2A
Power Consumption		3W	2.5W (USB peripherals not included)
Operating Temperature		0–50 °C	
Storage Temperature		-20–60 °C	
Humidity		0–80% RH, Non-condensing	
Material		Metal	
Net Weight (kg)		0.4 kg	0.4kg
Product Dimension (W × D × H)		158 mm x 80 mm x 30mm	
Package Dimension (W × D × H)		260 mm x 102 mm x 179mm	