

HDMI Digital KVM Extender Over Fiber/Cat5 (KFH163S)



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Introduction

KFH163S HDMI high-definition digital KVM extender is a KVM signal extension device that can transmit 1-channel video, mouse, keyboard, USB2.0 and other signals of the PC host through optical fiber or network cable.

A complete set of KFH163S equipment consists of two parts, namely the transmitter (KFH163S_TX) and the receiver (KFH163S_RX). The transmitter connects to the signal source that needs to be transmitted, such as PC or Blu-ray devices, and the receiver will connect to the display, keyboard, mouse, U disk, audio player and other devices.

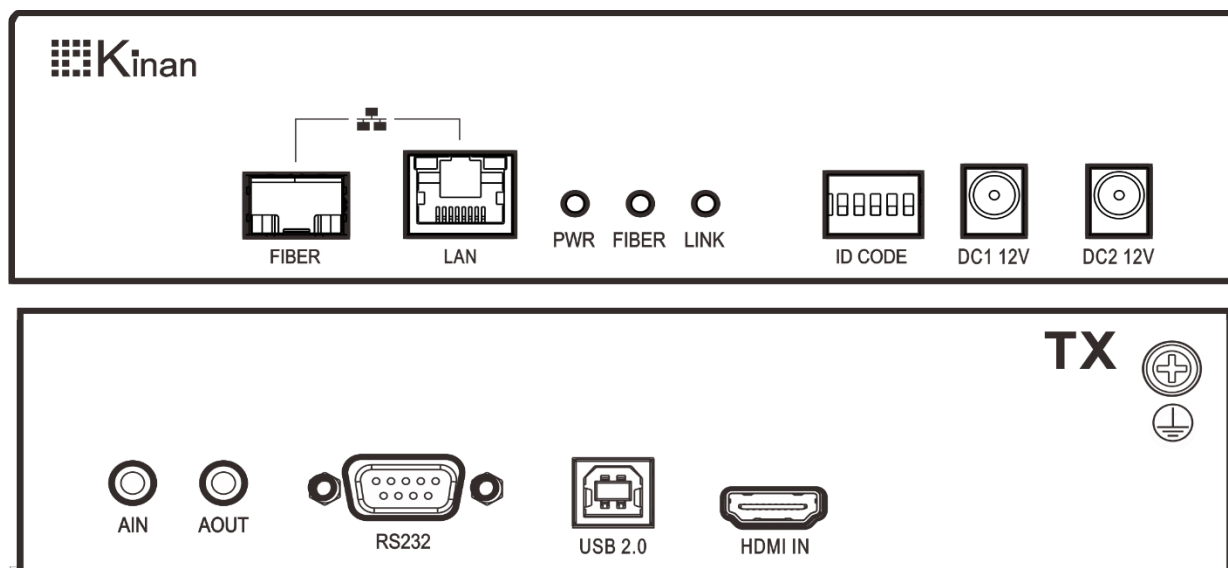
KFH163S HDMI high-definition digital KVM extender uses optical fiber or network cable for connection, supporting single-mode and multi-mode optical fibers. The maximum transmission distance of single-mode is 80km, the maximum transmission distance of multi-mode is 300m, and the maximum transmission distance of network cable is 150m. It supports the transmission of 1-channel high-quality HDMI signals and can be widely used on many scenarios.

Product Features

- Private video encoding protocol (JPEG-like) lossless compression, the transmission quality is visually lossless.
- Low latency, 1 frame delay (16ms @ 60fps).
- HDMI high-definition video transmission, up to 3840x2160@30Hz, 1920*1080@60Hz recommended.
- Typical transmission bandwidth is 200M~300Mbit/s.
- Supports 1000M LAN local area network interface.
- Supports optical fiber transmission. The optical interface SFP (LC) optical attenuation is -3db, (optional FC interface) -3db.
- The maximum transmission distance is 150m for point-to-point connection using network cable
- Supports USB 2.0 transparent transmission. Can connect to 4 USB peripherals, such as: U disk, USB printer, fingerprint recognition module, face recognition module, etc.
- Supports 1 channel asynchronous serial port transmission.
- Supports analog audio microphone.
- Supports point-to-point dial-up connection with Gigabit network switches.
- Built-in ESD protection circuit can prevent static electricity.

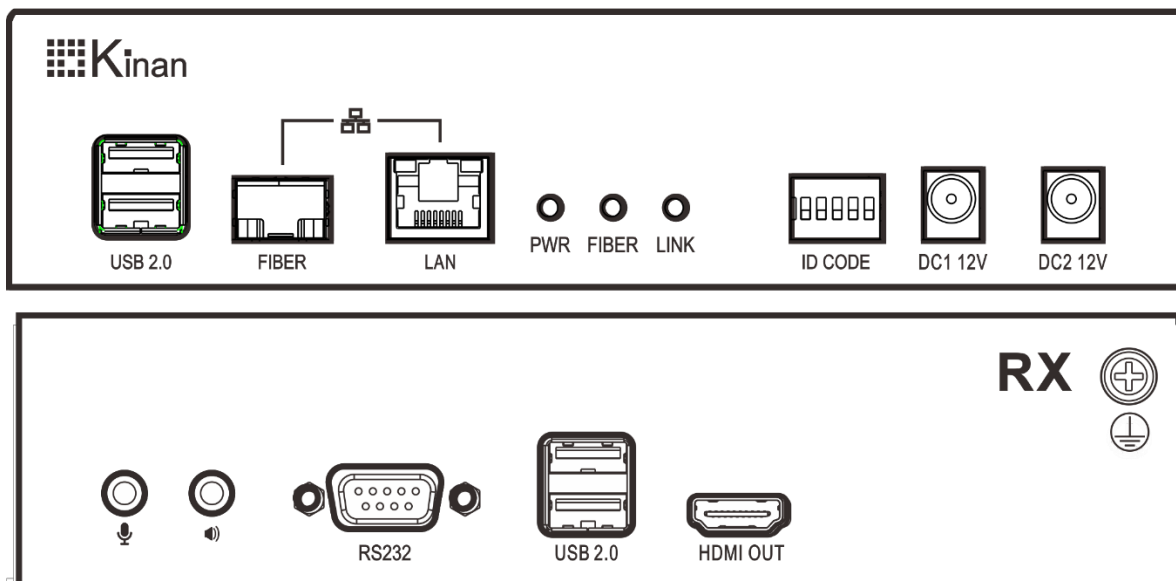
Product Overview

KFH163S Transmitter (TX)



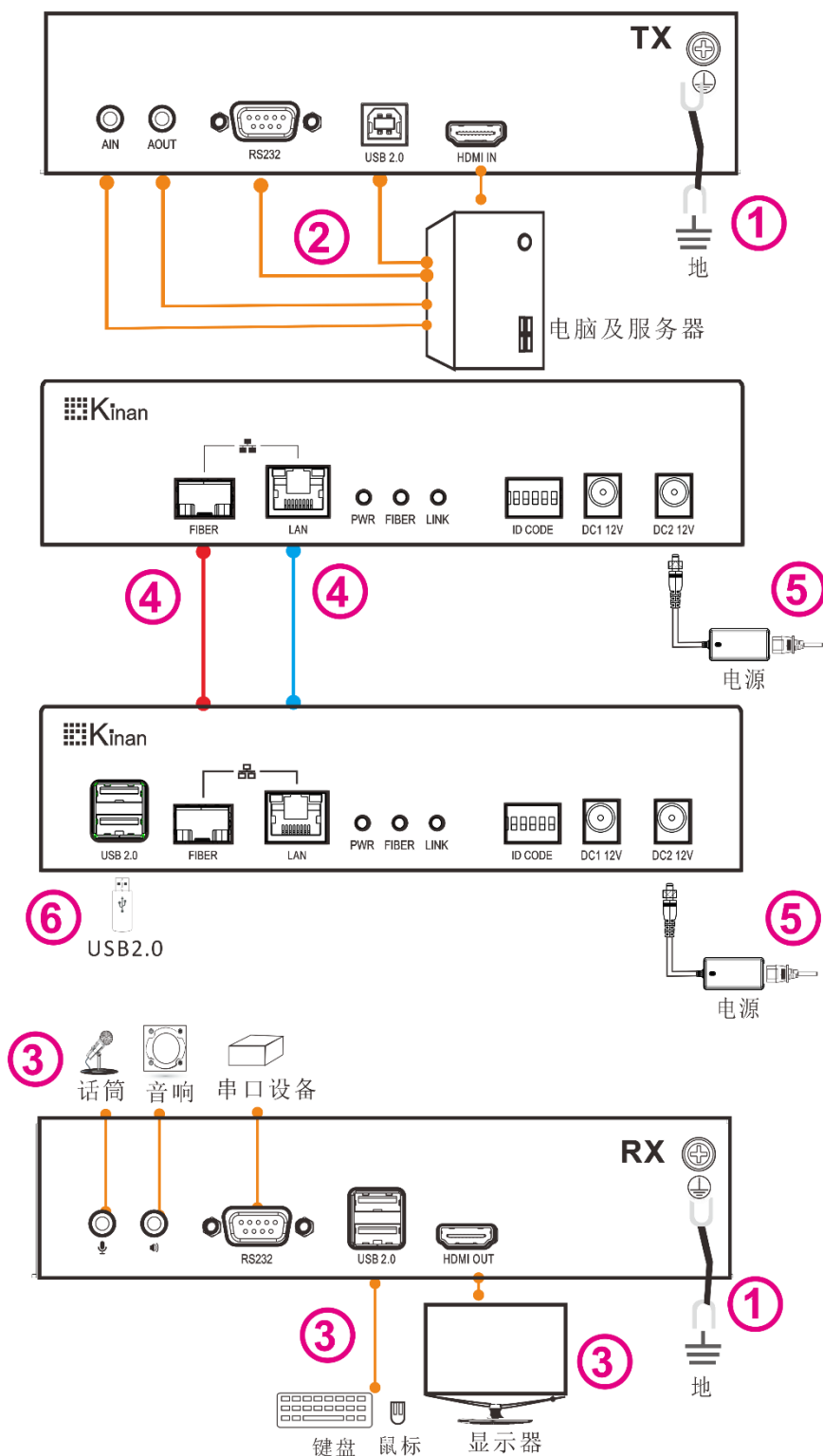
No.	Interface		Description
1	FIBER		Fiber interface
2	LAN		LAN interface
3	LED	PWR	Power indicator
		FIBER	Connection indicator of FIBER
		LINK	Connection indicator
4	ID CODE		Dip switch, used for point-to-point dial-up connection
5	DC1 ,DC2		Connect to the 12V power supply
6	AIN		Audio input
7	AOUT		MIC output
8	RS232		Serial Port
9	USB2.0		USB-B, connect to PC or server
10	HDMI IN		HDMI video input
11			Ground the device

KFH163S Transmitter (RX)



No.	Interface		Description
1	USB2.0		Connect to USB2.0 peripherals
2	FIBER		Fiber interface
3	LAN		LAN interface
4	LED	PWR	Power indicator
		FIBER	Connection indicator of FIBER
		LINK	Connection indicator
5	ID CODE		Dip switch, used for point-to-point dial-up connection
6	DC1, DC2		Connect to the 12V power supply
7			MIC input
8			Audio output
9	RS232		Serial Port
10	HDMI OUT		HDMI video output
11			Ground the device

Connection Diagram



Specifications

Specifications		KFH163S_TX	KFH163S_RX
Connections	HDMI input	1	NA
	HDMI output	NA	1
	Power	12V	12V
	LAN port	RJ45 x 1	RJ45 x 1
	SFP port	SFP x 1	SFP x 1
	Mic	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
Max resolution		3840*2160@30Hz	
Connection cable		CAT5/6 or Optical Fiber Cable	
Input power supply		DC12V / 2A	DC12V / 2A
Power consumption		5W	5W
Operating temperature		0–50 °C	
Storage temperature		-20–60 °C	
Humidity		0–80% RH, non-condensing	
Net weight (kg)		0.81kg	0.81kg
Material		Metal	
Product dimension (W×D×H)		189×144×44mm	189×144×44mm