DVI High-Definition Digital KVM Extender Over Fiber

(KFD262S)

Introduction

KFD262S DVI high-definition digital KVM extender is a device used to extend the transmission distance of signals. 2-channel video, mouse, keyboard, USB2.0 and other signals of the PC can be transmitted over optical fiber.

A complete set of KFD262S consists of a transmitter (KFD262S_TX) and a receiver (KFD262S_RX). The transmitter can be connected to signal sources that need to be transmitted, such as PC or servers, and the receiver can be connected to the display, keyboard, mouse, U disk, audio player and other devices.

KFD262S DVI 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 that of the network cable is 150m. It supports the transmission of 2-channel high-quality DVI signals and can be widely used on many scenarios.

*Note: The bandwidth of the optical module must reach 1.25Gbit/sec or above.

Product Feature

- Private video encoding protocol (JPEG-like) lossless compression, the transmission quality is visually lossless.
- Ultra-low latency, 1 frame delay (16ms @ 60fps).
- Power supply redundancy.
- Support 2-channel DVI high-definition video transmission, up to 1920 x 1200@60Hz resolution.
- 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. Support max 4 USB peripherals, such as: U disk, USB printer, finger print 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

KFD262S Transmitter (TX)
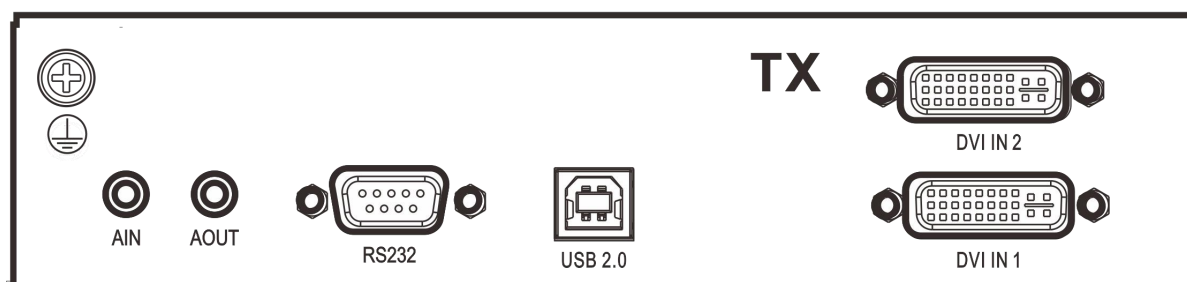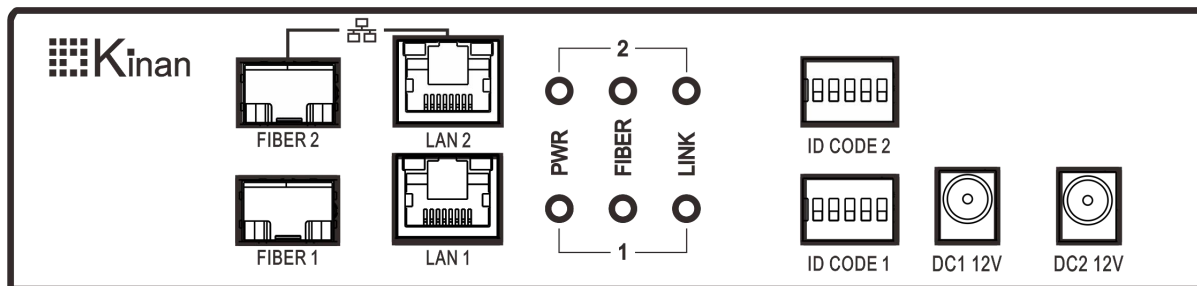
No.	Interface		Description
1	FIBER2, FIBER1		Fiber Network Ports
2	LAN2, LAN1		LAN Ports
3	LED	PWR	Power Indicator
		FIBER	Fiber Indicator
		LINK	Connection Indicator
4	ID CODE2, ID CODE1		Point-to-Point DIP Connection
5	DC1 ,DC2		DC12V Input
6	⏚		Ground the Device
7	AIN		Audio Input
8	AOUT		MIC Output
9	RS232		Serial Port
10	USB2.0		Connect to PCor Server
11	DVI IN2, DVI IN1		DVI Video Input

KFD262S Receiver (RX)
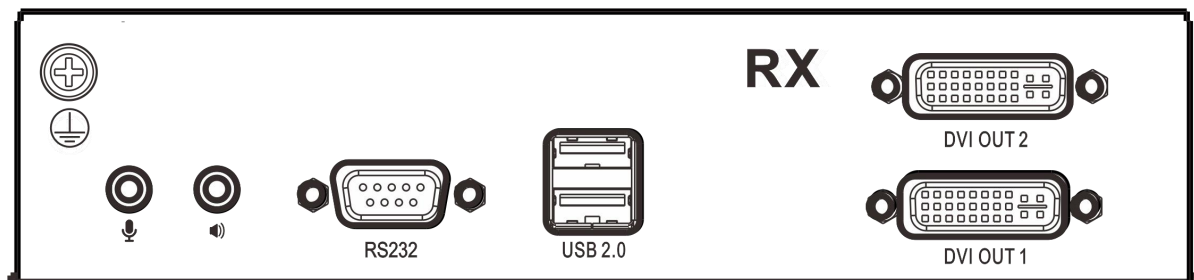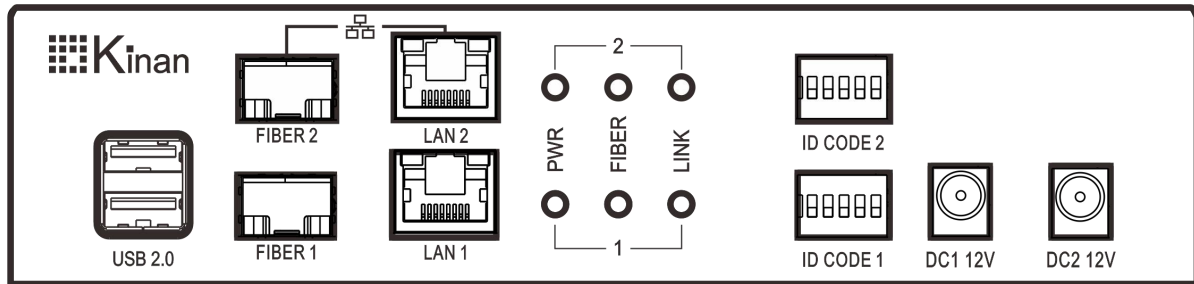
No.	Interface		Description
1	USB2.0		Connect Peripheral USB2.0 Devices
2	FIBER2, FIBER1		Fiber Network Ports
3	LAN2, LAN1		LAN Network Ports
4	LED	PWR	Power Indicator
		FIBER	Fiber Indicator
		LINK	Connection Indicator
5	ID CODE2, ID CODE1		Point-to-Point DIP Connection
6	DC1, DC2		DC12V Input
7	🎤		MIC Input
8	🔊		Audio Output
9	RS232		Serial Port
10	USB2.0		Connect Peripheral USB2.0 Devices
11	DVI OUT2, DVI OUT1		DVI Video Signals Output
12	⏚		Ground the Device

Connection Diagram
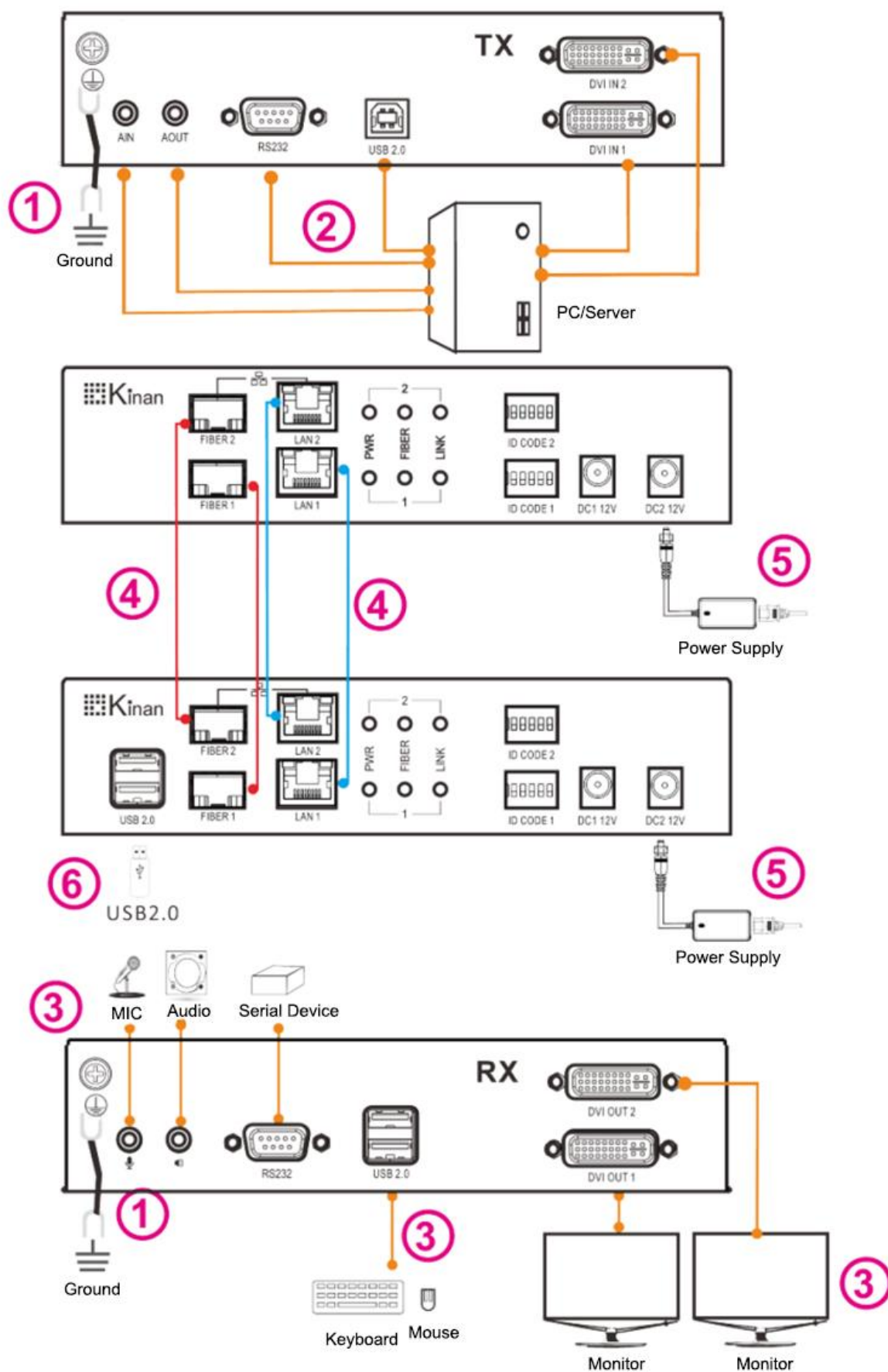
Specifications

Specifications		KFD262S_TX	KFD262S_RX
Connections	DVI input	2	N/A
	DVI output	N/A	2
	Power	DC12V x 2	DC12V x 2
	LAN port	RJ45 x 2	RJ45 x 2
	SFP port	SFP x 2	SFP x 2
	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	4
Max resolution		1920*1200@60Hz	
Connection cable		CAT5/6 or Optical Fiber Cable	
Input power supply		DC12V / 2A	DC12V / 2A
Power consumption		7W	9W
Operating temperature range		0–50 ℃	
Storage temperature range		-20–60 ℃	
Humidity range		0–80% RH, non-condensing	
Net weight (kg)		0.95kg	0.95kg
Material		Metal	
Device dimension (W×D×H)		189 mm×144 mm×44mm	
Package dimension (W×D×H)		395 mm ×274 mm×110mm	