

4K DisplayPort IP KVM Matrix Extender

(KFP286K)



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Introduction

The KFP286K IP KVM matrix extenders are highly optimized KVM extenders. The point-to-point connection supports transmission distance of 120m, and resolution up to 3840x2160@60Hz. This series of extenders can be connected to an 1G network switch to form a matrix switching system, which supports point-to-point (P2P) mode and matrix (Matrix) mode. The matrix switching system composed of extenders supports up to 9999 nodes by using a centralized management software, and it can support up to 40 nodes without using a centralized management software. It can connect multiple signal sources (such as servers, workstations, cameras and video walls).

With the matrix switching system, computers and servers can be located in the central server room far from the workstation to improve security, reduce the temperature and noise of the working environment, and achieve a quiet and friendly human-computer interaction environment.

The video compression algorithm of KFP286K matrix extender is a perfect combination of high-quality image and low latency (<8ms). The USB and video signals are transmitted through CAT5e/6/7 network cable.

It supports USB devices such as touch screen, USB sound card, printer, etc., it can also support USB storage devices.

Function

This product is intended to be used as a device to increase the distance that a keyboard, monitor and mouse can be placed from a computer. This product is intended for professional use. The product should not be used in potentially explosive environments.

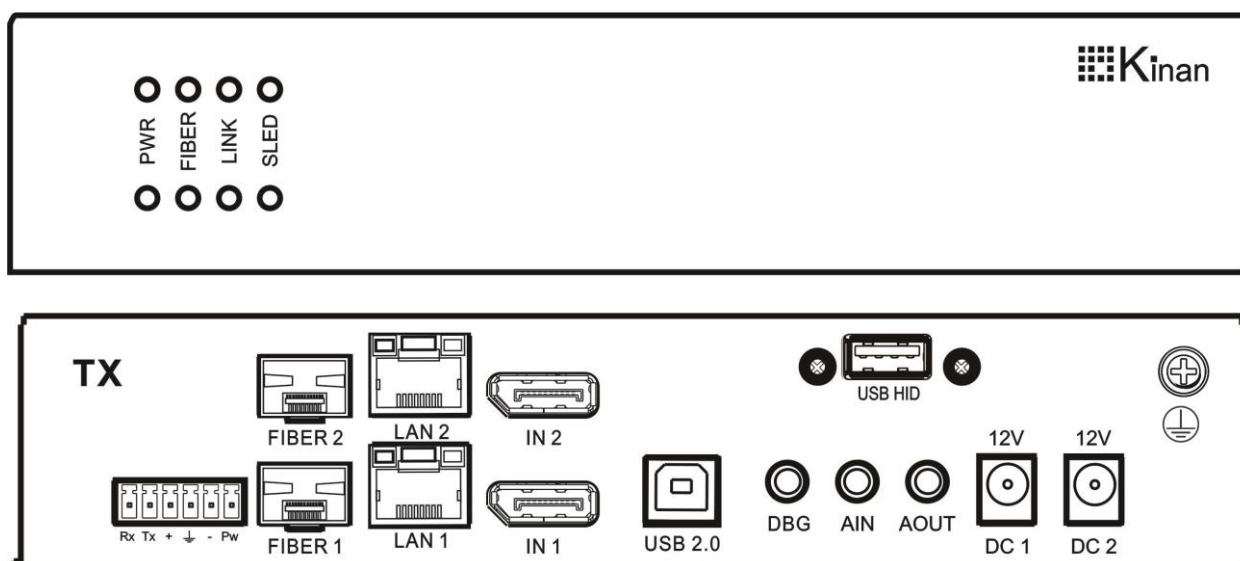
The product may only be used according to the instructions as described in this manual. All use, other than that described in this manual, is seen as unintended use. In this product, the product connected to the host end is called the transmitter (TX), and the product connected to the display end is called the receiver (RX).

Product Feature

- Display Port / USB2.0/Audio - IP KVM Matrix Extender
- Dual screen version
- Point-to-point connection supports maximum extension distance 120m/394ft
- Support seamless switching
- Freeze the last image after the disconnection of transmitter and receiver
- Support resolution up to 3840x2160@60Hz (4:4:4)
- USB transmission rate up to 480Mbit/s
- Display Port lossless real-time full HD transmission
- Support transmission through fiber optic and network (CAT5e/6/7)
- Support one Administrator account and one User account
- Support remote computer power on and off

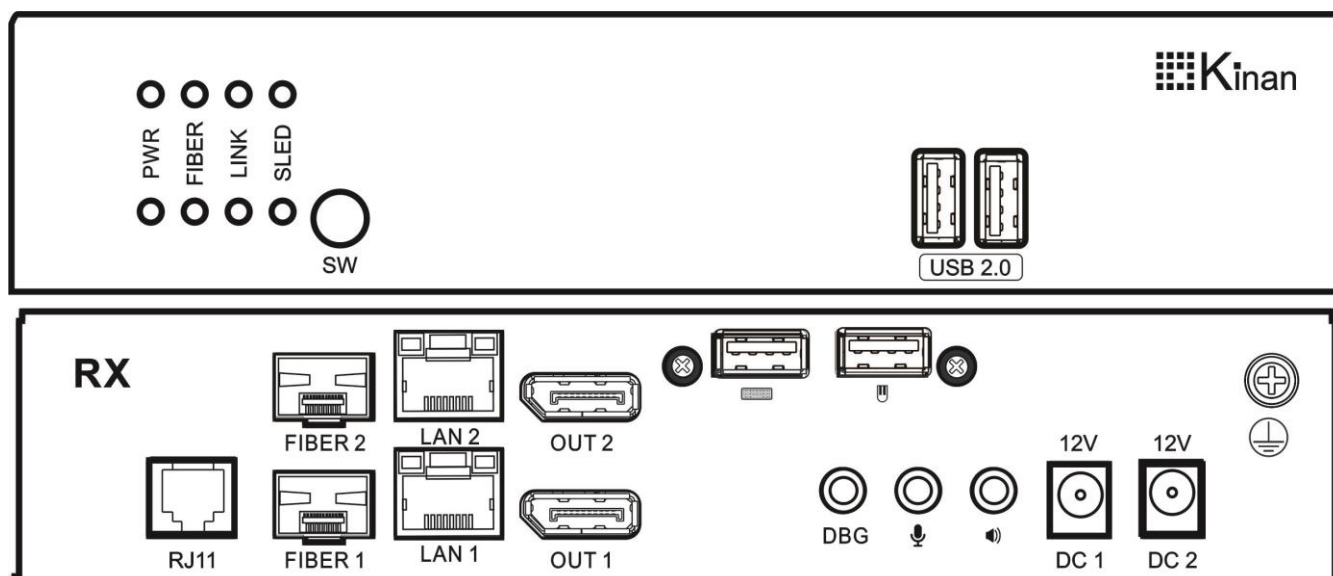
Product Overview

KFP286K Transmitter (TX)



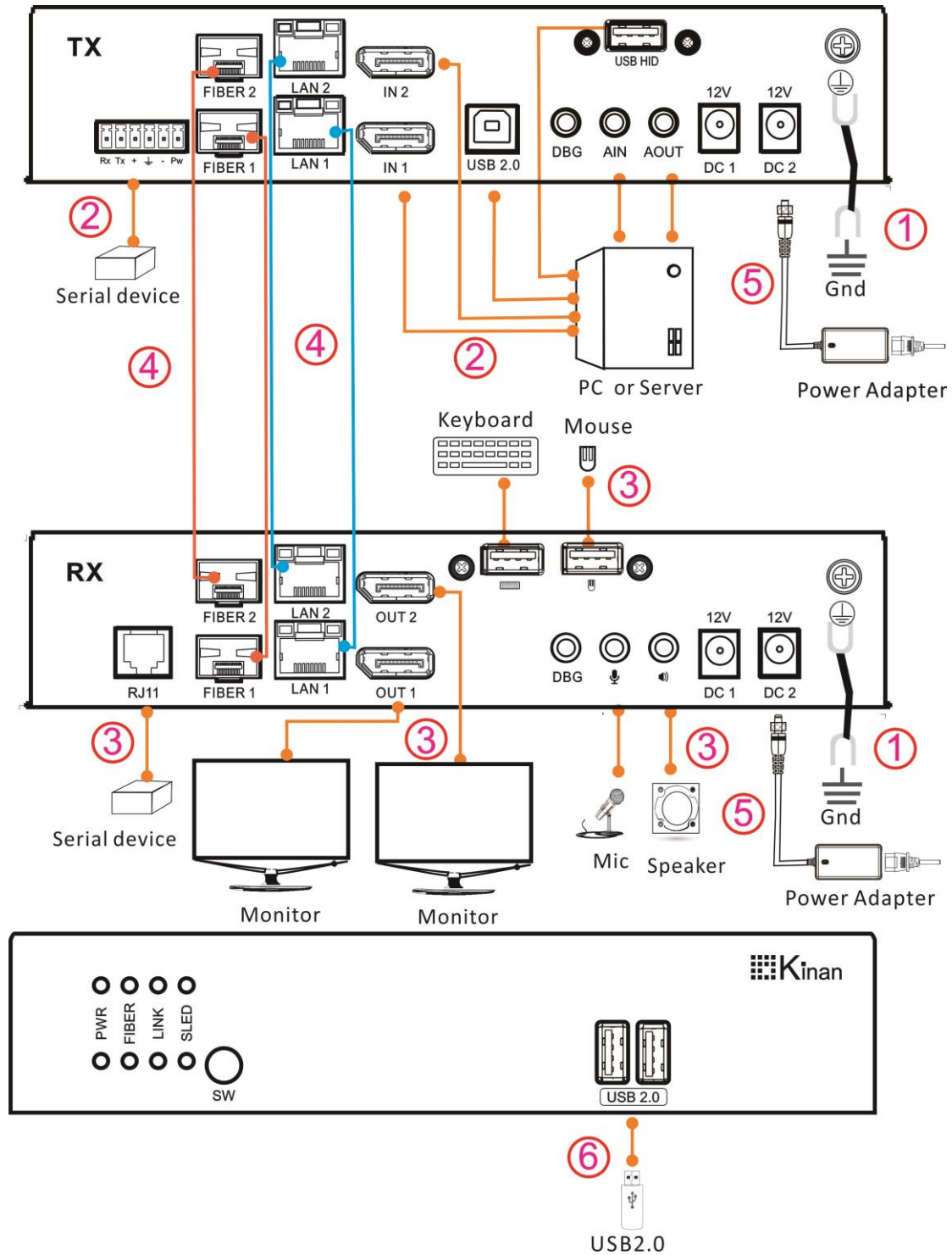
No.	Components		Description
1	LED	POWER	Power indicator
		FIBER	Connection indicator of FIBER
		LINK	Connection indicator
		SLED	System indicator
2	USB HID		connect to PC or server
3	Rx Tx + $\perp$ - Pw		Reserved interfaces
4	FIBER2, FIBER1		Fiber interface
5	LAN2, LAN1		LAN interface
6	IN2, IN1		Display Port video input
7	USB 2.0		USB-B, connect to PC or server
8	DUG		Debug interface
9	AIN		Audio input
10	AOUT		MIC output
11	DC1, DC2		Connect to the 12V power supply
12			Ground the device

KFP286K Receiver (RX)

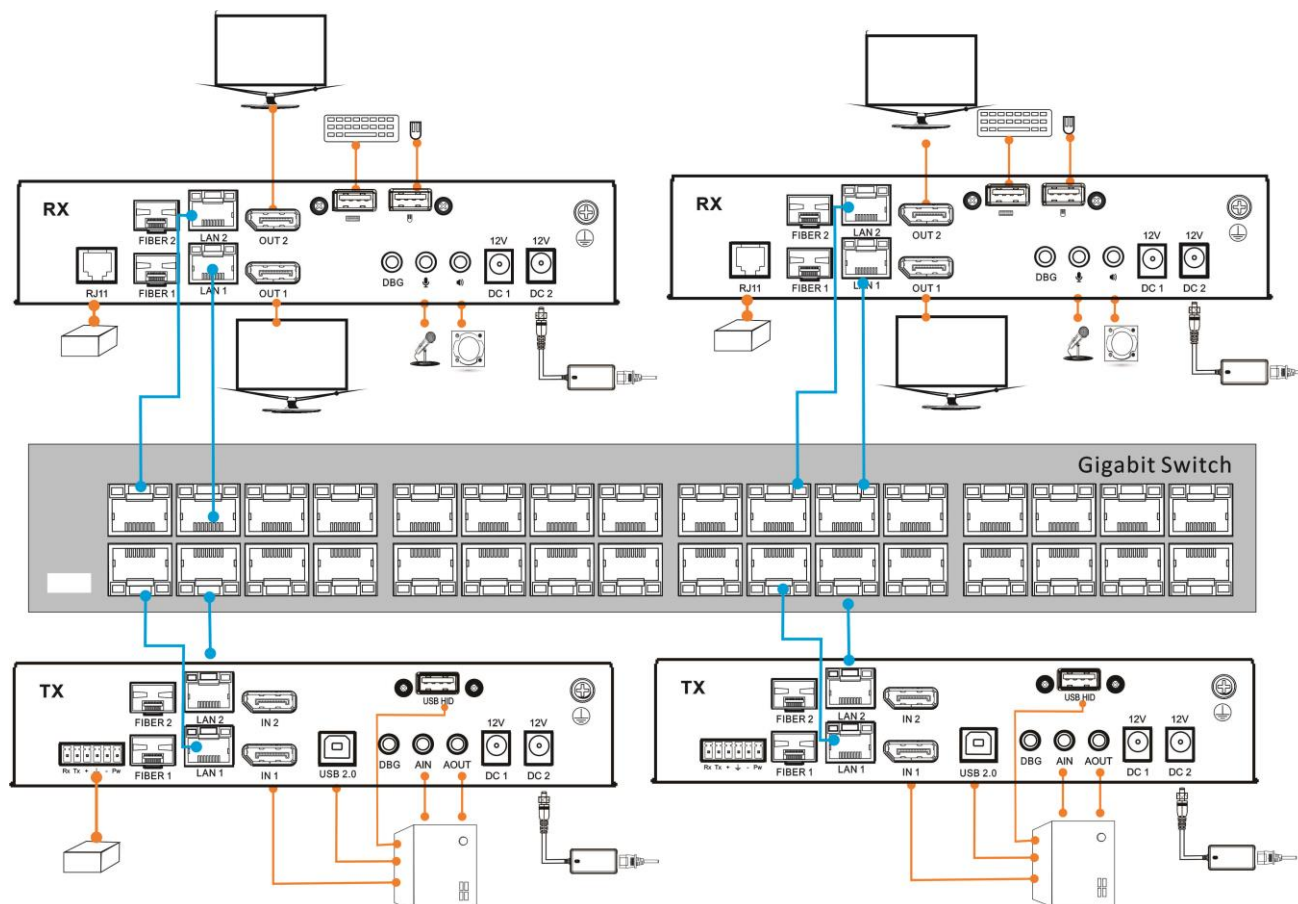


No.	Components		Description
1	LED	POWER	Power indicator
		FIBER	Connection indicator of FIBER
		LINK	Connection indicator
		SLED	System indicator
2	SW		Remote power on/off button
3	USB2.0		Connect to USB2.0 peripherals
4			Connect to a USB keyboard
5			Connect to a USB mouse
6	RJ11		Reserved interfaces
7	FIBER2, FIBER1		Fiber interface
8	LAN2, LAN1		LAN interface
9	OUT2, OUT1		DisplayPort video output
10	DBG		Debug interface
11			MIC input
12			Audio output
13	DC1, DC2		Connect to the 12V power supply
14			Ground the device

Connection Diagram



Matrix Connection Diagram



Specifications

Specifications		KFP286K_TX	KFP286K_RX
Connections	DisplayPort input	2	N/A
	DisplayPort output	N/A	2
	Power	2x 12V	2x 12V
	LAN port	2x RJ45	2x RJ45
	Optical Module	2x SFP+	2x SFP+
	Mic	3.5mm Stereo Jack (Green)	3.5mm Stereo Jack (Pink)
	Speaker	3.5mm Stereo Jack (Pink)	3.5mm Stereo Jack (Green)
	Square USB	1	N/A
	USB	1	4
Resolution		3840x2160@60Hz	
Cable		CAT5e/6/7 or Optical Fiber Cable	
I/R Value		DC12V / 3A	DC12V / 3A
Power consumption		15W	16W
Operating temperature		0—50 °C	
Storage temperature		-20—60 °C	
Humidity		0—80% RH, non-condensing	
Material		Metal	
Net weight(kg)		0.94 kg	0.94kg
Product dimension (W × D × H)		212mm x 124.3 mm x 44mm	
Package dimension (W × D × H)		243mmx 209mm x 98mm	243mmx 209mm x 98mm