

# Dual DP Digital KVM Extender over Fiber/Cat5

## (KFP262S)

## User Manual

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## User Notification

All information, documentation, and specifications contained in this manual are subject to change without prior notice. The manufacturer does not make any explicit or implied statement or guarantee about the contents of this document, especially for merchantability or fitness for any specific purpose. Any manufacturer's equipment described in this manual is sold or licensed as it is.

If the equipment is damaged artificially after purchase, the buyer (not the manufacturer) shall bear all costs for necessary repair and any losses caused by equipment defects.

If the correct operating voltage setting is not selected before operation, the manufacturer will not be responsible for any damage caused by system operation. **Please make sure the voltage has been set correctly before use.**

## Product Description

The KFP262S DisplayPort high-definition digital KVM extender is a KVM signal extension device that can transmit the 2-way video, mouse, keyboard, USB2.0 and other signals of the PC through optical fiber or network cable.

A complete set of KFP262S equipment consists of the transmitter (KFP262S\_TX) and the receiver (KFP262S\_RX ). The transmitter can be connected to the signal source that needs to be transmitted, such as PC or Blu-ray device, and the receiver can be connected to the display, keyboard, mouse, USB flash drive, audio player and other devices.

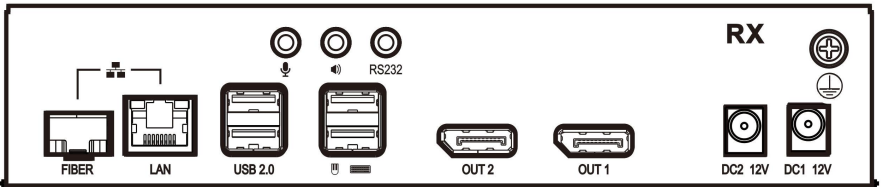
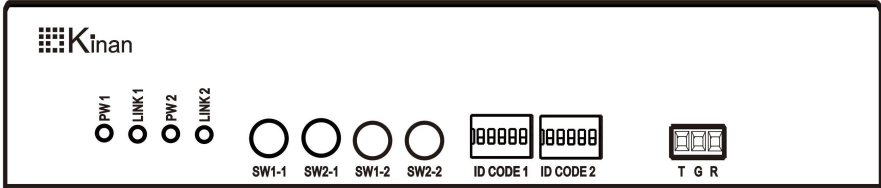
The KFP262S signal can be transmitted over fiber or copper cable. Connection via fiber cable supports single mode up to 80km, multi mode up to 300m; When it was connected by copper cable, the maximum distance can be up to 150m. It supports the transmission of 2-way high-quality DisplayPort signals and has a wide range of applications.

**Note: The bandwidth of the optical module must be above 1.25 Gbit/sec**

## Product Features

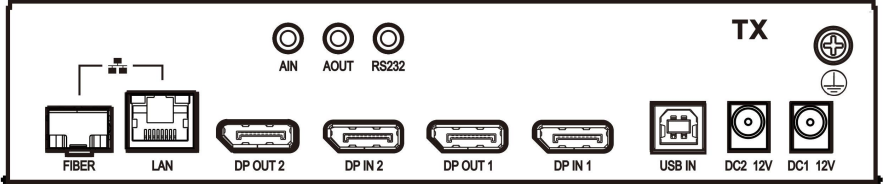
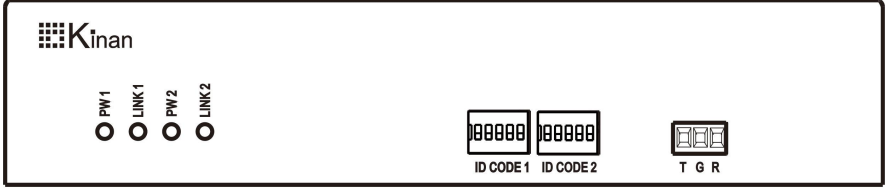
- Using private video encoding protocol (similar to JPEG) for lossless compression, the transmission quality is visually lossless
- Ultra-low latency, 1 frame delay (16ms @ 60fps)
- DisplayPort high-definition video transmission, supports resolution up to 3840x2160@30Hz ; recommends 1920\*1080@60 Hz
- Typical transmission bandwidth : 200M ~ 300Mbit/s
- Support 1000M LAN interface
- Support optical fiber transmission. Recommend optical interface SFP (LC or FC interface(optional)). The optical attenuation is -3db.
- The longest transmission distance is up to 150 meters with STP. (
- Cat5e supports 120 meters, Cat6a and above support 150 meters).
- Network cables must not be run alongside high-voltage power lines
- Supports USB 2.0 transmission and can connect 2 USB peripherals , such as: U disk, USB printer, fingerprint recognition module, face recognition module, etc.
- Support 1-channel asynchronous serial port transmission
- Supports analog audio microphone
- Support Gigabit network switch point-to-point dial-up connection
- Built-in ESD protection circuit can effectively prevent static electricity
- Supports DisplayPort loop-out on the transmitter (TX)

**KFP262S\_RX**



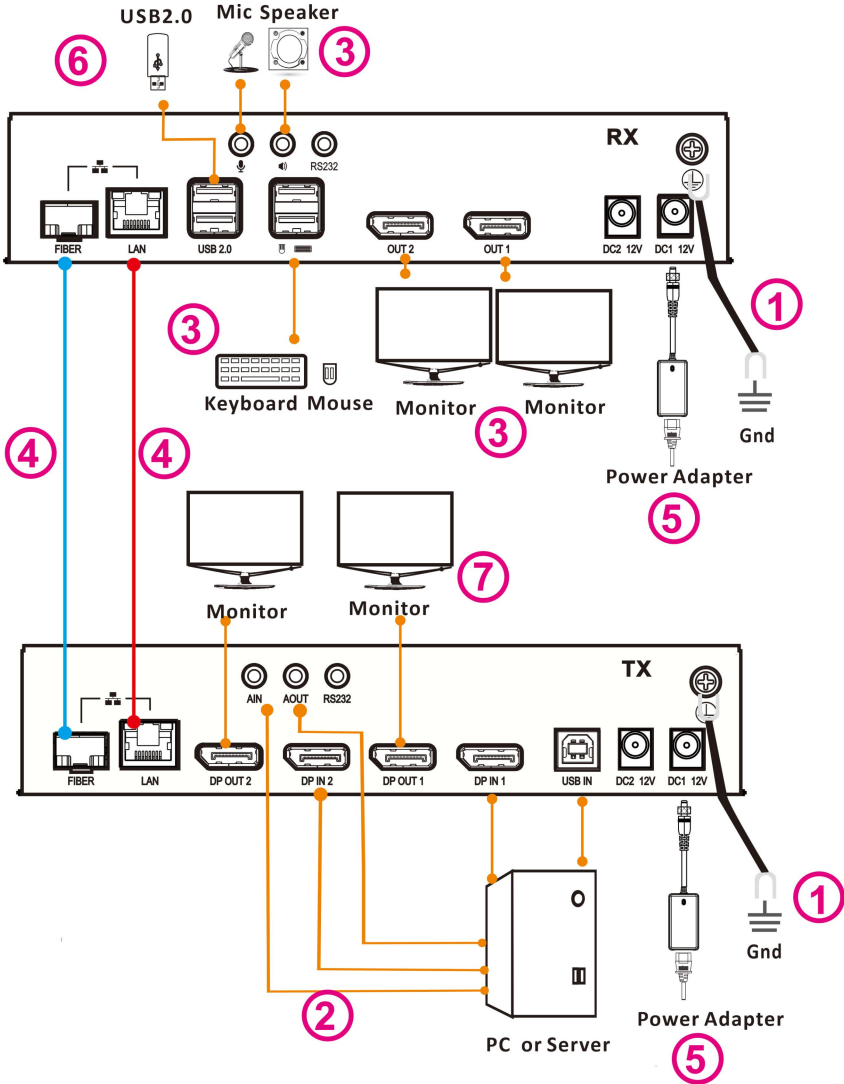
No.	Components		Function Description
1	LED	LINK2, LINK1	Connection Indicator
		PWR2, PWR1	Power indicator
2	SW1-1 , SW2-1 SW1-2, SW2-2		S W1: Select confirmation button SW2 : Function menu button (baud rate selection, display MAC , display IP address, re-read EDID )
3	ID CODE1, ID CODE2		Dip switch for point-to-point dip connection
4	TGR		Serial Port
5			MIC input
6			Audio Output
7	RS232		Reserved port
8	FIBER		Optical port
9	LAN		LAN port
10	USB2.0		Connect USB2.0 peripherals
11			Connect USB keyboard and mouse
12	DP OUT2, DP OUT1		DP video signal output
13	DC 12V, DC1 12V		12V power supply connection
14			Connect the device to the ground

**KFP262S\_TX**



No.	Components		Description
1	LED	PWR	Power indicator
		LINK	Connection Instructions
2	ID CODE2, ID CODE1		DIP switch for point-to-point DIP connection
3	TGR		Serial Port
4	AIN		Audio Input
5	A OUT		MIC output
6	RS232		Reserved port
7	FIBER		Optical port, plug this port with an SFP module
8	LAN		RJ45 port, plug this port with a CAT5E cable
9	DP IN2, DP IN1		DP video signal input
10	DP OUT2, DP OUT1		DP video signal output
11	USB IN		Connect to PC or server
12	DC2 12V, DC1 12V		12V power supply connection
13			Connect the device to the ground

### Connection Diagram



1. Before connecting the cables, ground the transmitter (TX) and receiver (RX) (see Figure ①)
2. The transmitter (TX) is connected to video interface, USB interface, audio microphone interface, and serial port interface of the PC (Figure ②).
3. The receiver (RX) connects to the keyboard, mouse, monitor, audio, and serial port devices (Figure ③).
4. Connect the transmitter (TX) and receiver (RX) interfaces respectively through optical fiber or network cable (Figure ④)

***Note that the ID CODE switch keys on TX and RX must be in the same section.***

5. Connect the power cords to the transmitter and receiver respectively (Figure ⑤ )
6. Connect the USB peripheral to the receiving end (RX) (Figure ⑥ )
7. Connect an external monitor to transmitter (TX) (Figure ⑦).

## Specifications

Technical Parameters		KFP262S_TX	KFP262S_RX
Interface	DisplayPort input	2	N/A
	DisplayPort output	2	2
	Power Supply	12V x 2	12V x 2
	LAN port	RJ45 x 1	RJ45 x 1
	Optical Module	SFP x 1	SFP x 1
	Microphone	3.5mm Stereo Jack(Pink) x 1	3.5mm Stereo Jack (Pink) x 1
	Speaker	3.5mm Stereo Jack (Green) x 1	3.5mm Stereo Jack(Green) x 1
	USB Type B	1	N/A
	USB Type A	N/A	4
Maximum resolution		3840*2160@30Hz (Maximum) 1920*1080@60Hz (Optimal)	
Connection Cable		Fiber optical or CAT5e/6/7 cable	
Power Input		DC12V/2A	DC12V/2A
Power Consumption		7W	9W
Operating temperature		0–50 °C	
Storage temperature		-20–60 °C	
Humidity		0–80% RH, non-condensing	
Net weight		0.92kg	0.91kg
Material		Metal	
Product dimension (W × D × H)		202mm×115.5mm×44mm	
Packing dimension(W × D × H)		395 mm × 274 mm × 110 mm	