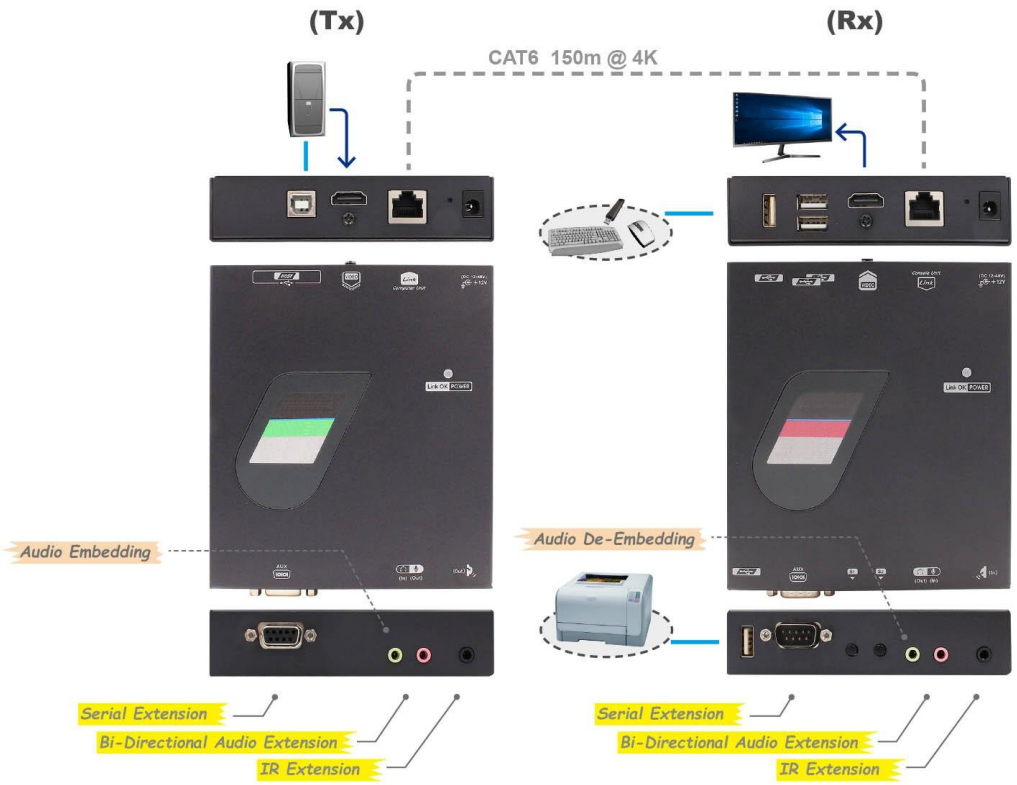
KVM Extender

4K30 HDMI KVM Extender with Audio, IR, RS-232, USB 2.0, 150m

Model: IPXF-H430-SH150

PRODUCT OVERVIEW

The HDMI KVM Extender, **IPXF-H430-SH150**, consists of a Transmitter and a Receiver unit that extend HDMI, audio, USB 2.0, IR, and RS-232 signals. It transmits 4K30 HDMI video up to 150 meters (490 ft) over CAT6/6a/7 cabling.



The Extender supports USB 2.0 extension, with four USB 2.0 ports located on the front and rear of the receiver unit (Rx), suitable for both long-term and temporary connection of USB peripherals. It is compatible with most popular operating systems, including Windows, macOS, ChromeOS, and Linux.

The IR extension function supports a full-frequency IR signal range from 38 kHz to 56 kHz. Additionally, the distance between the emitter head and the IR port on the unit can be extended, providing users with a flexible and convenient installation option. (A maximum 3-meter IR extension cable is available separately.)

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Full-duplex data communication between the Tx and Rx via CATx cabling provides a cost-effective, hardware-based solution for remote access and control of RS-232 protocol devices, without the need for setup or configuration. RS-232 serial extension is ideal for applications such as digital signage, industrial or commercial offices, smart classrooms, and smart home systems.

2-Way Audio with Unique Audio Embedding/De-Embedding Function

The bi-directional audio extension function allows independent 2-way audio transmission between the transmitter and receiver units. The audio embedder/extractor function can embed audio from a 3.5 mm source into the HDMI signal or extract HDMI audio to a 3.5 mm stereo output. This provides a second audio transmission channel, beneficial for content creators in video post-production, audio broadcasting, or home cinema amplifier installations.

KEY FEATURES

- Reliable remote access to a computer via CAT6/6a/7 cable up to 150 meters (492 feet)
- HDMI 1.4 video supports popular resolutions up to 4K@30Hz (4:4:4)
- Supports special Aero/Marine resolution of 2048x2048@60Hz (4:4:4)
- HDCP 1.4 compliant for uninterrupted video playback
- USB 2.0 extension supports keyboard, mouse, USB drives, and other peripherals
- Front and rear USB ports for easy access
- Smart audio extension for embedded audio and audio extraction
- IR extension from console to computer unit for AV source control
- Serial extension with selectable baud rate for control applications
- Connection supported through VLAN-enabled hubs
- Plug-and-play, no drivers or software required
- Compatible with Windows, Mac, Linux, and Chrome OS
- Interoperability among HDMI and DisplayPort models
    - DisplayPort Model: *IPXF-D430-SH150*
    - HDMI Model: *IPXF-H430-SH150*
- Wide power input range: DC 12–48V
- PoC (Power over Cable) for power transmission from Tx-to-Rx or Rx-to-Tx

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PRODUCT SPECIFICATIONS

IPXF-H430-SH150	Transmitter	Receiver
Max Resolution	3840 x 2160@30Hz (4:4:4) 2560 x 1440@60Hz (4:4:4)	
Video Extension	HDMI 1.4 x 1 (In)	HDMI 1.4 x 1 (Out)
USB 2.0 Extension	USB-B x 1	USB-A x 4
Speaker Extension	3.5mm SPK Jack x 1 (In) (supports Audio Embed)	3.5mm SPK Jack x 1 (Out) (supports Audio Extract)
Microphone Extension	3.5mm MIC Jack x 1 (Out)	3.5mm MIC Jack x 1 (In)
IR Extension	3.5mm SPK Jack x 1 (Out)	3.5mm SPK Jack x 1 (In)
Serial Extension	DB-9 x 1 (RS-232 DCE)	DB-9 x 1 (RS-232 DTE)
Push Buttons	Reset x 1	Reset x 1 Function x 2
LED Indicator	Power / Connection Status x 1	Power / Connection Status x 1
HDCP Compliance	HDCP 1.4	
Link Port	RJ45 x 1	
Extension Range	Max. 150m (Point-to-Point) 1. 23/24 AWG solid bare copper STP cabling is recommended. 2. For long distance runs (i.e., above 100m), power supplies for both units may be required due to voltage drop when using PoC over different cable qualities.	
Power Supply	DC 12V~48V (PoC)	DC 12V~48V (PoC)
Operating Environment	0 ~ 40°C, Humidity < 80%	
Storage Temperature	-20 ~ 60°C	
Material	Aluminium	
H x W x D (mm)	27 x 121 x 140	27 x 121 x 140
Weight (g)	350	350

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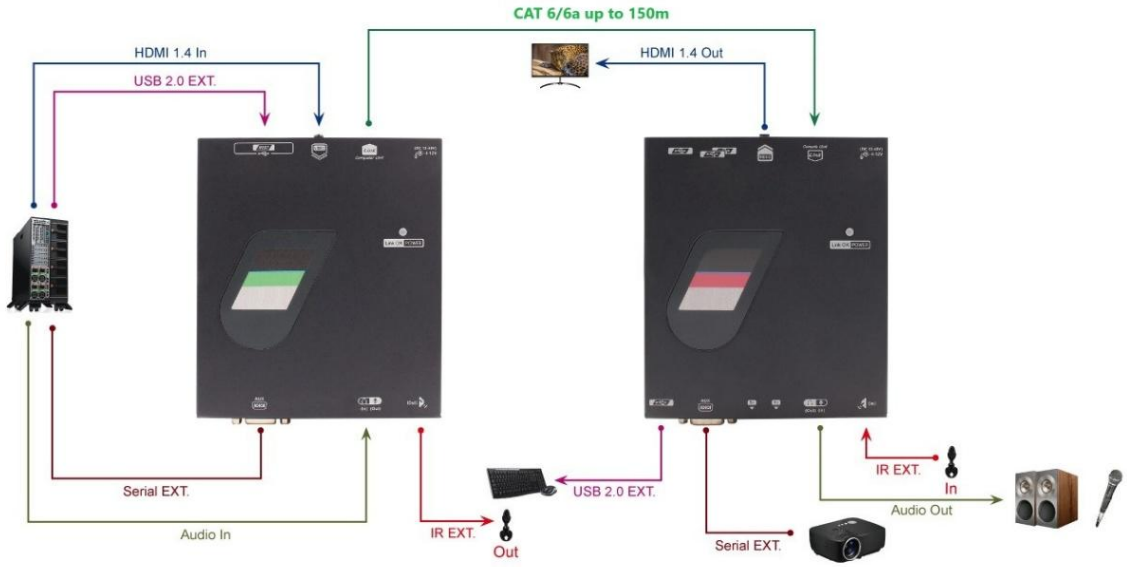
CONNECTION DIAGRAM



Interfaces of the Transmitter and Receiver:

KVM Extender

PACKAGE CONTENTS

- 1 × Transmitter Unit
- 1 × Receiver Unit
- 1 × Power Adapter
- 1 × USB 2.0 A-B Cable
- 1 × User Manual
- 2 × Foot Pad Sets

(Optional) 1 × IR Extension Kit

(Optional) 1 × Power Adapter

(Optional) 1 or 2 × VESA/Wall Mount Kit

WARRANTY

- Standard 1-Year Limited Warranty, unless otherwise specified by Sales.
- Optional Advance Replacement Warranty is available upon request

ORDERING INFORMATION

Part Number	Descriptions
IPXF-H430-SH150	4K30 HDMI KVM Extender with Audio, IR, RS-232, USB 2.0, 150m
(OPTIONAL)	
RXN-ACC-IRK	IR Extension Kit (Blaster and Sensor)
RXN-ACC-VESA	KVM Extender VESA/Wall-mount Kit
RXN-PS12V-15018	Power Adapter for IPXF-x430 KVM Extender

CONTACT INFORMATION

For more information, please visit our website or contact our customer service team:

- **Website:** www.dsgio.com
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