

# IPKX-A430-SH100 Quick Start Guide

This guide will help you install and use your IP KVM Extender for the first time.

Visit [https://www.dsgio.com/ipkvm\\_extenders/](https://www.dsgio.com/ipkvm_extenders/), select your model and go to the 'Downloads' tab to download the latest product documentation.

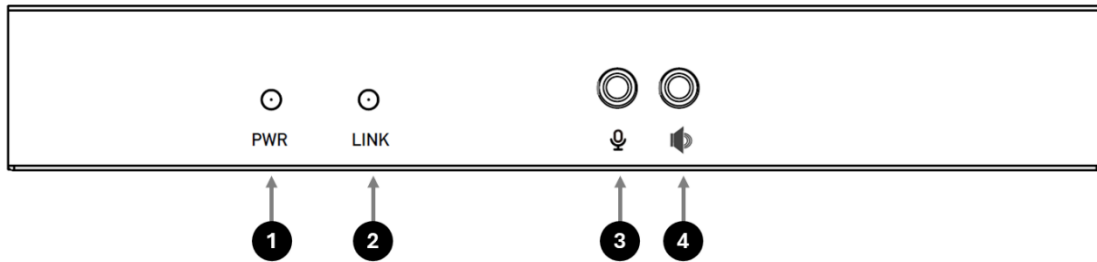
## 1 Check the Package Contents

### IPKX-A430-SH100 Kit

- 1 × Single Head HDMI Transmitter
- 1 × Single Head HDMI Receiver
- 1 × HDMI Cable
- 1 × 3.5mm Audio Cable
- 1 × USB-B to USB-A Cable
- 2 × 5V/2A DC Power Adapter
- 1 × Quick Start Guide
- 1 × L-Plate Brackets Set

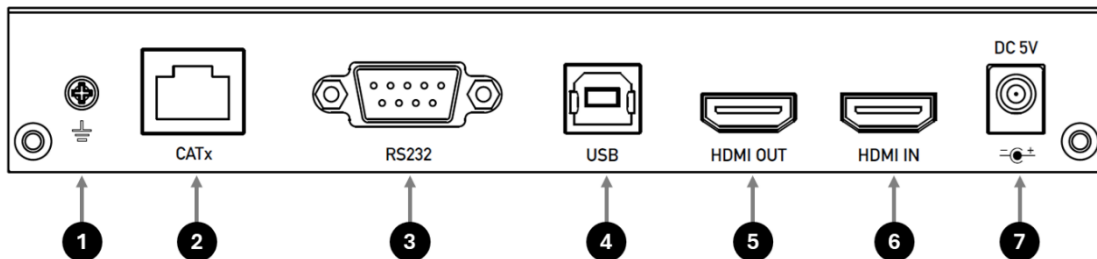
## 2 Transmitter (TX) Front and Rear Panel

### IPKX-A430-SH100 (TX) Front Panel:



No.	Feature	Function
1	PWR LED Indicator	LED indicator lights <b>Red</b> when the unit is powered up. <b>Blinking</b> indicates initialising state.
2	LINK LED Indicator	LED Indicator lights <b>Green</b> when the connection link between TX and RX units is Ok. <b>Blinking</b> indicates searching state. LED Indicator is <b>Off</b> when there is no link between TX and RX.
3	MIC IN Audio Port	Connects to analog audio input for audio extension.
4	SPK OUT Audio Port	Connects to analog audio output for audio extension.

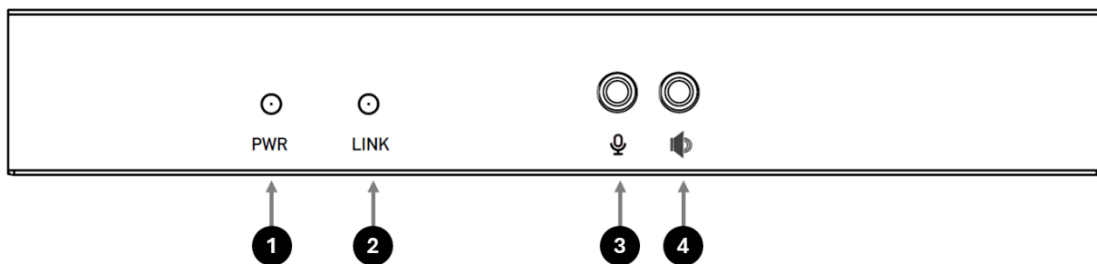
### IPKX-A430-SH100 (TX) Rear Panel:



No.	Feature	Function
1	Ground Screw	Links to ground.
2	CATx Link Port	RJ-45 CATx Port for LAN cable connection between TX and RX.
3	DB9 (Serial) Port	Connects to Source's RS-232 Serial Port for serial extension.
4	USB Type B Port	Connects to Source's USB Port for USB extension.
5	HDMI Out	Connects to a local HDMI display. <b>Note:</b> The local display must have the same specifications as the remote display at RX.
6	HDMI In	Connects to HDMI source for A/V extension over IP.
7	Power Port	Connects to DC 5V/2A Power Supply.

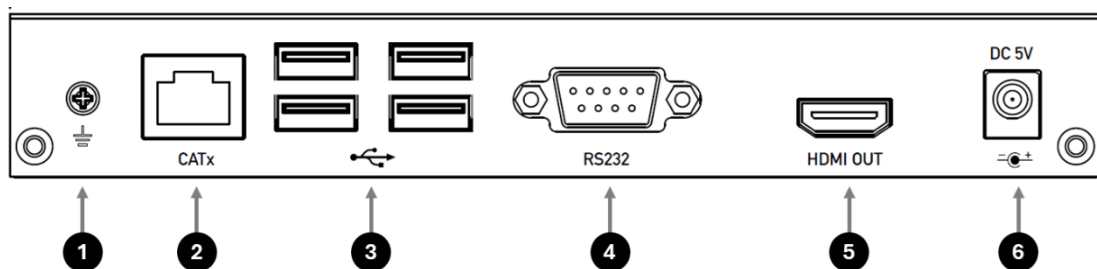
### 3 Receiver (RX) Front and Rear Panel

#### IPKX-A430-SH100 (RX) Front Panel:



No.	Feature	Function
1	PWR LED Indicator	LED indicator lights <b>Red</b> when the unit is powered up. <b>Blinking</b> indicates initialising state.
2	LINK LED Indicator	LED Indicator lights <b>Green</b> when the connection link between TX and RX units is Ok. <b>Blinking</b> indicates searching state. LED Indicator is <b>Off</b> when there is no link between TX and RX.
3	MIC IN Audio Port	Connects to analog audio input for audio extension.
4	SPK OUT Audio Port	Connects to analog audio output for audio extension.

#### IPKX-A430-SH100 (RX) Rear Panel:



No.	Feature	Function
1	Ground Screw	Links to ground.
2	CATx Link Port	RJ-45 CATx Port for LAN cable connection between TX and RX.
3	USB 2.0 Ports	Connect to USB devices such as keyboard, mouse, flash drive, etc.
4	DB9 (Serial) Port	Connects to remote device's RS-232 Serial Port for serial extension.
5	HDMI Out	Connects to remote HDMI display. <b>Note:</b> The local display must have the same specifications as the remote display at RX.
6	Power Port	Connects to DC 5V/2A Power Supply

## 4 Getting Started: Key Information and Connection Diagram

The Transmitter and Receiver units should be directly connected using a CAT 5e or CAT 6 cable to create a point-to-point extender solution. This is a plug-and-play system that requires no configuration or software drivers.

### IMPORTANT NOTES

- **Material Quality:**
  - Use high-quality TIA/EIA-568 compliant CAT 5e/6 LAN cables to ensure optimal transmission quality.
  - HDMI cables must meet minimum HDMI 1.4 specifications
  - USB cables must meet USB 2.0 specifications
- **Display Resolution:** The HDMI displays connected to the TX and RX units must support the same specifications notably the displays' optimal video resolution.
- **CATx Link Port Bandwidth:** The CATx RJ-45 Port has a bandwidth of 1 Gbps.
- **Audio Note:** When connecting analog audio devices to the microphone or speaker ports on the TX or RX units, digital HDMI audio transmission will be disabled. Only analog LINE-IN/LINE-OUT audio extension will remain active as long as the ports are in use.
- **EDID Pass-through:** The extender supports EDID pass-through from remote display to the transmitter. Thus, proper powering up sequence is recommended after connecting the equipment.
  1. Power on the extenders first
  2. Next, power on the display(s)
  3. Lastly, power on the computer/source device

### CONNECTION DIAGRAM

#### 4K30 Single Head HDMI IP KVM Extender (IPKX-A430-SH100)



## 5 Set Up the Devices

Follow these steps to install the HDMI Extender:

- 1. Connect the HDMI Source:**
  - Connect one end of an HDMI cable to the HDMI port on your source device (e.g., computer, server).
  - Connect the other end to the **HDMI IN** port on the **TX (Transmitter)** unit.
- 2. Connect the Display (TX Unit):**
  - Attach an HDMI cable from the **HDMI OUT** port on the **TX** unit to a HDMI display.
- 3. Connect the Display (RX Unit):**
  - Attach another HDMI cable from the **HDMI OUT** port on the **RX (Receiver)** unit to a second HDMI display.
- 4. Connect USB Devices:**
  - Using a USB Type A-B cable, connect the USB 2.0 port on the source device to the **TX** unit.
  - Plug a USB keyboard, mouse, or other USB devices into the USB ports on the **RX** unit.
- 5. Connect RS-232 Device:**
  - Use an RS-232 cable to connect the RS-232 ports between the source device and the **TX** unit.
  - Then, connect the **RS-232** device to the **RS-232** port on the **RX** unit.
- 6. Connect Audio (Microphone/Speaker):**
  - Using the supplied microphone/speaker combo cable, connect the microphone and speaker ports of the source device to the **TX** unit.
  - Connect a microphone and speaker to the corresponding ports on the **RX** unit.
- 7. CATx Connection:**
  - Use a **CAT5e/6** cable to connect the **CATx Link** ports on the **TX** and **RX** units.
- 8. Power the Units:**
  - Plug the power adapter into the **DC jacks** on both the **TX** and **RX** units.

### Troubleshooting:

If no image appears on the screen, try the following:

1. Verify that all cables are securely connected.
2. Check that the PWR and LINK LED Indicators light up and not blinking. Test with another LAN cable.
3. Ensure the input source on your display (TV, monitor, etc.) is set to HDMI and HDMI 1.4 mode.
4. Check the video output settings in the PC BIOS and OS/graphics software configuration.
5. Test the video source by connecting it directly to the display.

Visit [https://www.dsgio.com/ipkvm\\_extenders](https://www.dsgio.com/ipkvm_extenders) to download the latest product documentation.

### Limited Warranty

IN NO EVENT SHALL THE DIRECT VENDOR'S LIABILITY FOR DIRECT OR INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS, LOSS OF BUSINESS, OR FINANCIAL LOSS CAUSED BY THE USE OF THE PRODUCT EXCEED THE PRICE PAID FOR THE PRODUCT.

The direct vendor makes no warranty or representation, expressed or implied, with respect to the contents or use of this documentation, and expressly disclaims its quality, performance, merchantability, or fitness for any particular purpose.

The direct vendor also reserves the right to revise or update the product or documentation without obligation to notify any user of such revisions or updates. For further information, please contact your direct vendor.

All brand names and registered trademarks are the property of their respective owners.