

HDMI Digital KVM Extender over Fiber (KFH101S)

User Manual



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Product Description

The KFH101S HDMI digital KVM extender delivers HD HDMI video, USB, RS232, and stereo audio signals up to 10km over fiber optic cable.

A complete set of KFH101S including Transmitter (KFH101S-TX) and Receiver (KFH101S-RX). The Transmitter is connected to a computer or server, and the receiver is connected to a display, keyboard, audio player and other USB devices.

The KFH101S support single-mode and multi-mode optical fiber, the maximum transmission distance of single mode is 10km, and the transmission distance of multimode is up to 300m. It supports the transmission of 2 channel high-quality HDMI signals and has a wide range of applications.

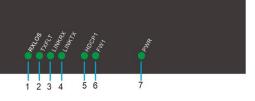
*Note: The bandwidth of the optical module must reach 10Gbit/sec.

Features

- Allows HDMI access to your computer from a remote console
- Support USB keyboard and mouse
- Uncompressed HDMI FHD video, resolution up to 4K@60Hz (YCbCr 4:2:0)
- Extends HDMI video, audio, USB, RS-232 signals over fiber optic cable
- The maximum transmission distance is vary depending on the fiber type, the maximum transmission distance of single mode is 10km, and the transmission distance of multimode is up to 300m.
- Support USB 2.0 Supports a wide range of USB peripherals, such as encrypted U disk, face recognition and other USB devices.
- Support USB Hub, the number of USB ports can be expanded through USB Hub
- Support individual 2-channel stereo audio, 1 LINEIN + 1 LINEOUT
- Easy to install no software required connecting cables to the devices is all it takes
- Plug and play
- Support EDID transparent transmission

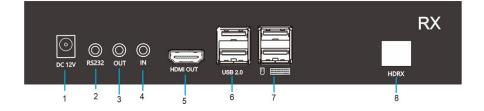
KFH101S_RX (Front View)

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| No. | Components | Description | |
|-----|------------|---|--|
| 1 | RXLOS | SFP+ module signal receiving | |
| 2 | TXLFT | The LED indicator that shows the SFP+ module has been connected, when the light is on, the SFP+ module is recognized. | |
| 3 | LINKRX | Flashing: data is being transferred Off: The connection is unsuccessful | |
| 4 | LINKTX | Flashing: data is being transferred Off: The connection is unsuccessful | |
| 5 | HDCP1 | HDMI device video status | |
| 6 | FW1 | HDMI device running indicator | |
| 7 | PWR | Power indicator, indicate power status | |

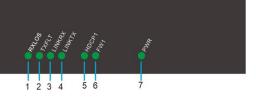
KFH101S_RX (Rear View)



| No. | Components | Description | |
|-----|------------|-----------------------------------|--|
| 1 | DC12V | 12V power connection port | |
| 2 | RS232 | Serial port | |
| 3 | AOUT | Audio output | |
| 4 | AIN | MIC input | |
| 5 | HDMI OUT | Connect to HDMI monitor | |
| 6 | USB2.0 | Connect to USB peripherals | |
| 7 | USB port | Connect to USB keyboard and mouse | |
| 8 | HDRX | Connect to TX with fiber cable | |

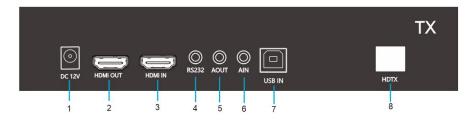
KFH101S_TX (Front View)

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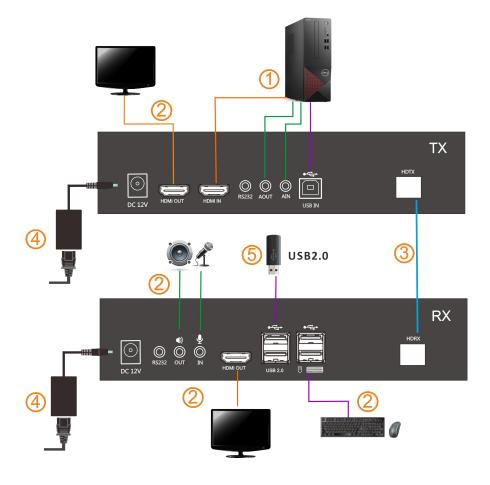
| No. | Components | Description | |
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| 6 | FW1 | HDMI device running indicator | |
| 7 | PWR | Power indicator, indicate power status | |

KFH101S_TX (Rear View)



| No. | Components | Description | |
|-----|------------|---------------------------------------|--|
| 1 | DC12V | 12V power connection port | |
| 2 | HDMI OUT | Connect to HDMI out display | |
| 3 | HDMI IN | HDMI video input | |
| 4 | RS232 | Serial port | |
| 5 | AOUT | Audio output | |
| 6 | AIN | MIC input | |
| 7 | USB IN | Connect to the USB port of a computer | |
| 8 | HDTX | Connect to RX with fiber cable | |

Connection Diagram



- 1. Connect the KFH101S_TX to the video port, USB port and audio port of a computer. (See ① from the above diagram)
- 2. Connect the KFH101S_RX to keyboard, mouse, monitor and audio device. (See 2) from the above diagram)
- 3. Connect the transmitter (HDTX) to the receiver (HDRX) with fiber cable. (See ③ from the above diagram)
- 4. Power on the TX and RX unit. (See 4 from the above diagram)

Specifications

| Function | | KFH101S_TX | KFH101S_RX |
|----------------------------------|----------------|------------------------------|------------------------------|
| | HDMI Input | 1 | NA |
| | HDMI Output | 1 | 1 |
| | Power | 12V | 12V |
| Connector | Fiber Module | SFP+ x 1 | SFP+ x 1 |
| | Microphone | 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 | USB x 4 |
| Resolution | | 4K@60Hz (YCbCr 4:2:0) | |
| Connection Cable | | Fiber cable | |
| Power Input | | DC12V / 2A | DC12V / 2A |
| Power Consumption | | 11.5W | 10.5W |
| Operating Te | emperature | 0—50 ℃ | |
| Storage Temperature | | -20—60 ℃ | |
| Humidity | | 0—80% RH, Non-condensing | |
| Material | | Metal | |
| Net Weight (| kg) | 0.8kg | 0.8kg |
| Product Dimension (W × D × H) | | 214 mm x 113.5 mm x 44mm | |
| Package Dim (W × D × H) | ension | 395 mm x 274 mm x 110mm | |