

# IP KVM Matrix Extender

Model No. **KFH188S**



## Description

- KFH188s Extender is a highly optimized KVM extender. The point-to-point connection supports a transmission distance of 120m, and resolution up to 1920 x 1080@60Hz. This extender can be connected to a 1G network switch to form a matrix switching system, which supports point-to-point (P2P) mode and matrix mode. The matrix switching system composed of extenders supports up to 9999 nodes using centralized management software, and it can support up to 40 nodes without centralized management software.
- The video compression algorithm of KFH188s extender is a perfect combination of high-quality images (1920 x 1080@60Hz) and low latency (<8ms). The USB and video signals are transmitted through the CAT5e/6/7 network cable.
- 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.
- USB2.0 supports touch screens, USB sound cards, printers, etc., and it can also support USB storage devices.

## Features

- HDMI/ Audio/ USB2.0/ Serial Port IP KVM Matrix Extender
- Support hot backup function with master and backup connections((dual optical or dual network connections or 1 optical /1 network connections)
- Support local (TX) HDMI interface loop-out
- Visual UI interface (Chinese and English)
- Support seamless switching between computers without any black screen
- The transmitting rate of the USB is up to 480Mbit/s
- Support analog and digital videos and microphone
- The resolution is up to 3840x2160@30Hz (YCbCr 4:4:4)
- Support an administrator account and a user account
- Support collaborative sharing (Push & Get)
- Support lossless and extremely low latency video transmission ( $\approx 8\text{ms}@60\text{Hz}$ )
- Support dual optical port/ dual Ethernet port/1 optical port & 1 Ethernet port
- The point-to-point connection can support up to 120m transmission distance by using CAT5e/6/7 cables
- The fiber optic transmission supports single-mode and multi-mode which can decide the max transmission distance
- Freeze the last image after the disconnection of the transmitter and receiver

## Specification

| Specification                 |                    | KFH188S_TX                                            | KFH188S_RX               |
|-------------------------------|--------------------|-------------------------------------------------------|--------------------------|
| Interfaces                    | HDMI Input         | 1                                                     | N/A                      |
|                               | HDMI Output        | 1                                                     | 1                        |
|                               | Power              | 12V x 2                                               | 12V x 2                  |
|                               | LAN Port           | RJ45 x 2                                              | RJ45 x 2                 |
|                               | Fiber Optic Module | SFP x 2                                               | SFP x 2                  |
|                               | Microphone         | 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                | N/A                                                   | 4                        |
| Max Resolution                |                    | 1920*1080@60Hz                                        |                          |
| Connected Cables              |                    | CAT5e/6/7 or Fiber(Depends on the fiber optic module) |                          |
| Power Input                   |                    | DC12V / 3A                                            | DC12V / 3A               |
| Power Consumption             |                    | 15W                                                   | 15W                      |
| Operating Temperature         |                    | 0—50 °C                                               |                          |
| Storage Temperature           |                    | -20—60 °C                                             |                          |
| Humidity                      |                    | 0—80% RH, non-condensing                              |                          |
| Material                      |                    | Metal                                                 |                          |
| Net Weight(kg)                |                    | 1.78 kg                                               | 1.8kg                    |
| Product Dimension (W × D × H) |                    | 317mm x 216.1 mm x 44mm                               |                          |
| Package Dimension (W × D × H) |                    | 395 mm x 274 mm x110 mm                               | 395 mm x 274 mm x110 mm  |

## Connection Diagram

