

# HDMI over Fiber Extender

ITEM NO.: HE01F-4K6G-KS

4K HDMI & USB/IR/RS232 Fiber Extender with Optical Transceiver



HE01F-4K6G is an Optical HDMI Extender that overcomes the length restriction of standard HDMI cables by using optical fiber to send high definition audio and video signals over large distances. It also built in USB for KVM keyboard mouse for HDMI KVM solution. It is also built in RS232/IR selection to extend the IR remote control and transfer RS-232 (up to 115kbps) in both directions, allows you to connect serial devices such as touch screens and barcode scanners.

## HE01F-4K6G-KS 4K HDMI USB KVM with IR/RS232/USB Fiber Extender

- Support 4K@60hz (18Gbps) 4:4:4 8bits, HDR.
- Support HDMI 2.0/HDCP 2.2.
- IR/RS232/USB function selection.
- Support USB keyboard mouse.
- Support Bi-directional IR pass through from 20Khz to 60Khz.
- Support Bi-directional RS232.
- Use external SFP+ 10 Giga module.
- Package includes 10G SFP+ 2KM single mode optical transceiver x 2 units.

### Installation:

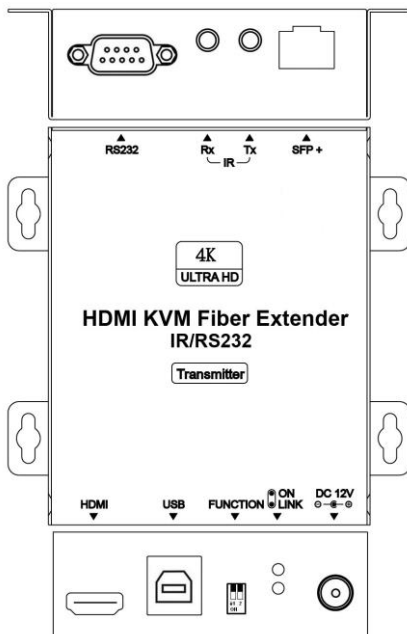


Fiber SFP+ 10G 2KM(Max)  
4K 60Hz 4:4:4

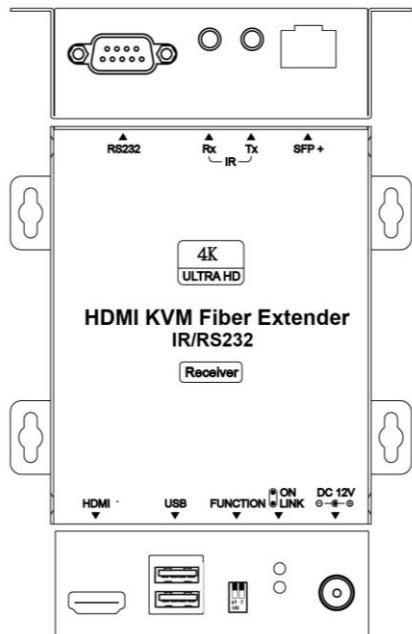
The working distance also influence on different fiber optical cable and optical transceivers.

### Panel View:

HE01FT-4K6G

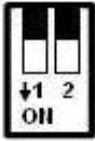


HE01FR-4K6G



**LED Indication:**

LED Color	HE01FT-4K6G	HE01FR-4K6G
GREEN	Power on/off	
BLUE	Fiber Link/Unlink	

**Dip Switch Function:**

SWITCH	FUNCTION					
SW1	ON	IR Extender	OFF	RS232 Extender	ON	USB Keyboard Mouse
SW2	OFF	Function	ON	Function	ON	Extender Function

**SWITCH position 1 and 2 must be as above instruction:**

**IR:** SW1 ON (down position) + SW2 OFF (up position)  
**RS232:** SW1 OFF (up position) + SW2 ON (down position)  
**USB:** SW1 ON (down position) + SW2 ON (down position)

**RS232 Define:****DB9(F)**

RS232	
Pin	Define
Pin 2	TX
Pin 3	RX
Pin 5	GND

**DB9(M)**

RS232	
Pin	Define
Pin 2	RX
Pin 3	TX
Pin 5	GND

**Caution:**

- Under HDMI 2.0 mode, recommend to use "PREMIUM certified" HDMI cable.
- IR Emitter/Receiver cable do not put too close to avoid mutually interference.
- This Device not support CEC

**HE01F-4K6G-KS Package Include:**

- HE01FT-4K6G Transmitter x 1
- HE01FR-4K6G Receiver x 1
- 10G SFP+ 2KM single mode optical transceiver x 2
- DC 5V 2Amp power adapter x 2
- IR Emitter cable x 1
- IR Receiver cable x 1

**Specification:**

ITEM NO	HE01FT-4K6G	HE01FR-4K6G
HDMI Input /Output	HDMI Type A x 1	HDMI Type A x 1
HDMI Resolution	4K@60Hz 4:4:4 18Gbps (6Gbps per color) 、 1080p@60Hz 16bit 、3D 、HDR 、Dolby vision	
HDMI Audio	LPCM 7.1 @ 192KHz 、Dolby TrueHD 、DTS-HD MA 、ATMOS 、DTS:X	
Link Interface	SFP 10G+	
Transmission Distance	Multimode 300 SingleMode 60Km (Max)	
RS-232 Interface	DB9(Female)	DB9(Male)
RS-232 Data Rate	115200 bps / Full Duplex	
IR Input /Output	3.5mm Phone Jack x 2	
IR Frequency carrier/receive angle/receive distance	30~60KHz / T : ± 10° / R : ± 55° / 5M /Bi-Directional	
Keyboard / Mouse	USB Type B x 1	USB Type A x 2
Power Consumption	Max 5 W	Max 5 W
Power Supply	DC 5V 2A	
Temperature	Operation : -10~45°C, Storage : -30~70°C,95% Humidity: up to 95%	
Dimension (mm)	109.6 x 114.5 x 30	109.6 x 114.5 x 30
Weight (g)	270	270