HDMI over Fiber Optic Extender

User Manual

Model : **HE01F-4K6G**

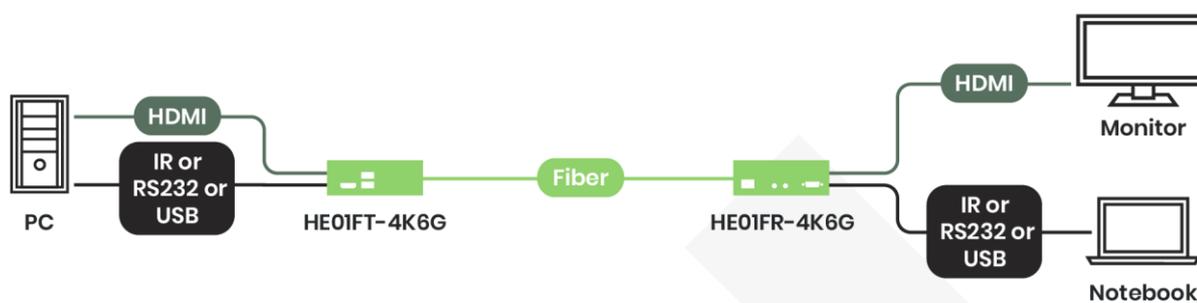**4K60Hz HDMI & USB/IR/RS232 KVM Fiber Optic Extender**

Introduction

HE01F-4K6G is an HDMI extender that overcomes the length restriction of a standard HDMI cable using fiber optic cable. The extender can send visually lossless compression of HDMI with USB, RS232 or bi-directional IR signal for up to 60KM.

Features

- Resolution up to 4K@60Hz 4:4:4.
- Signal extension up to 60KM over fiber optic cable.
- Supports bi-directional IR, RS232, USB transmission (Send one at a time).
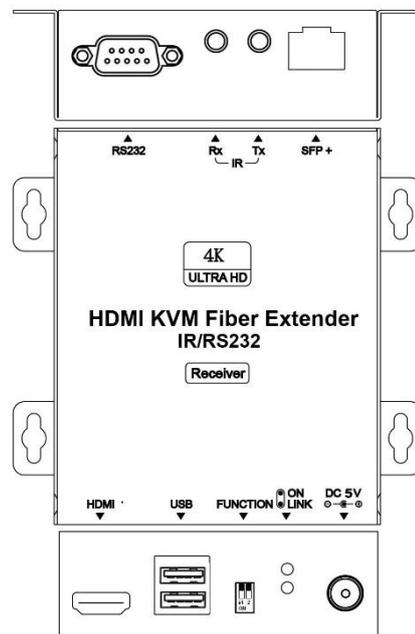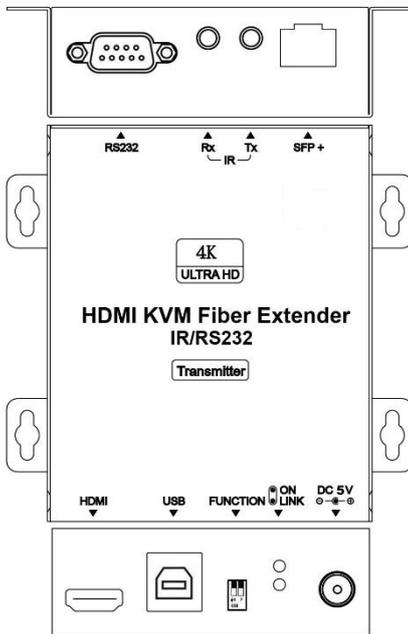
Installation View

Working Distance

The working distance may vary by fiber optical cables and connectors.

Optical Module	Max. Distance
SFP+ Multi-mode	300M
SFP+ Single-mode	60KM

Panel View

HE01FT-4K6G

HE01FR-4K6G

LED Indication	LED Color	Status
Power	GREEN On/ Off	Power On/ Off
Connection	BLUE On/ Off	Fiber Linked/ Unlinked

DIP Switch

Follow the instructions below to enable IR, RS232 or keyboard & mouse extension. Please also note that **ON** refers to ↓, and **OFF** refers to ↑.

SWITCH	FUNCTION					
SW1	ON	IR Extension	OFF	RS232 Extension	ON	Keyboard & Mouse Extension
SW2	OFF		ON		ON	

RS232

DB9(Female)	
Pin	Define
Pin 2	TX
Pin 3	RX
Pin 5	GND

DB9(Male)	
Pin	Define
Pin 2	RX
Pin 3	TX
Pin 5	GND

Caution

1. **IMPORTANT**: For the Transmitter, connect the 5v adapter before connecting the USB, otherwise it may affect the circuit board and cause damage to the device.
2. Using certified Premium HDMI cable to transfer high-resolution video is recommended.
3. **DO NOT** put IR Emitter/Receiver cable too close with each other to avoid interference.
4. HE01F-4K6G **DOES NOT** support CEC.

Package Includes

Item	Amount
HE01FT-4K6G	1 pc
HE01FR-4K6G	1 pc
DC5V 2A Power Adapter	2 pcs
IR Emitter Cable	1 pcs
IR Receiver Cable	1 pcs

Specification

ITEM NO.	HE01FT-4K6G	HE01FR-4K6G
Support		
Compliance	HDMI 2.0, HDCP 2.2, 3D, HDR	
Max. Video Resolution	4K@60Hz 4:4:4 18Gbps	
Max. Transmission Distance	60KM over Signal-mode, 300M over Multi-mode	
Audio Format	LPCM 7.1@192KHz, Dolby TrueHD, DTS-HD MA, ATMOS, DTS:X	
RS232 Baud Rate	115200 bps (Full Duplex)	
IR Support	30~60KHz, $\pm 10°$, 5M, Bi-Directional	30~60KHz, $\pm 55°$/ 5M /Bi-Directional
Ports & Interfaces		
Video Input	1 x HDMI Type A	1 x SFP+ 10G
Video Output	1 x SFP+ 10G	1 x HDMI Type A
RS232 Interface	1 x DB9(Female)	1 x DB9(Male)
IR Interface	1 x 3.5mm Phone Jack	1 x 3.5mm Phone Jack
USB Interface	1 x USB Type B	2 x USB Type A
Power		
Power Supply	DC 5V 2A	DC 5V 2A
Power Consumption	5W (Max)	5W (Max)
Ambient Temperature		
Operation	-10 to 45℃	
Storage	-30 to 70℃	
Humidity	up to 95%	
Physical Characteristics		
Dimensions	109.6 x 114.5 x 30mm	109.6 x 114.5 x 30mm
Weight	270g	270g

RoHS CE