HDMI over Fiber Optic Extender

User Manual

Model : HE01F-4K6G-KM

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

Introduction

HE01F-4K6G-KM is an HDMI extender package that overcomes the length restriction of a standard HDMI cable using included optical module and fiber optic cable. The extender can send uncompressed HDMI with USB, RS232 or bi-directional IR signal for up to 10KM.

Features

- Resolution up to 4K@60Hz 4:4:4.
- Signal extension up to 10KM over fiber optic cable.
- Supports bi-directional IR, RS232, USB transmission (Send one at a time).
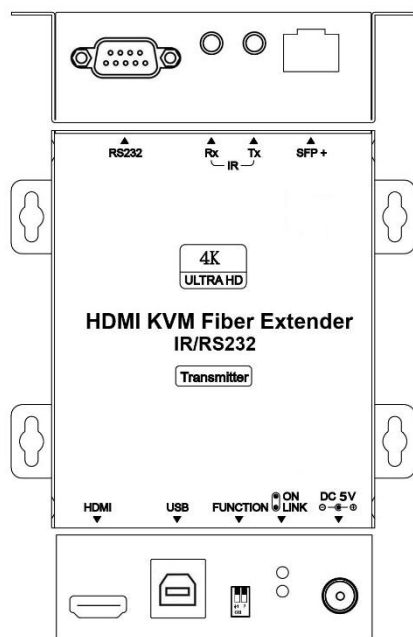
Installation View
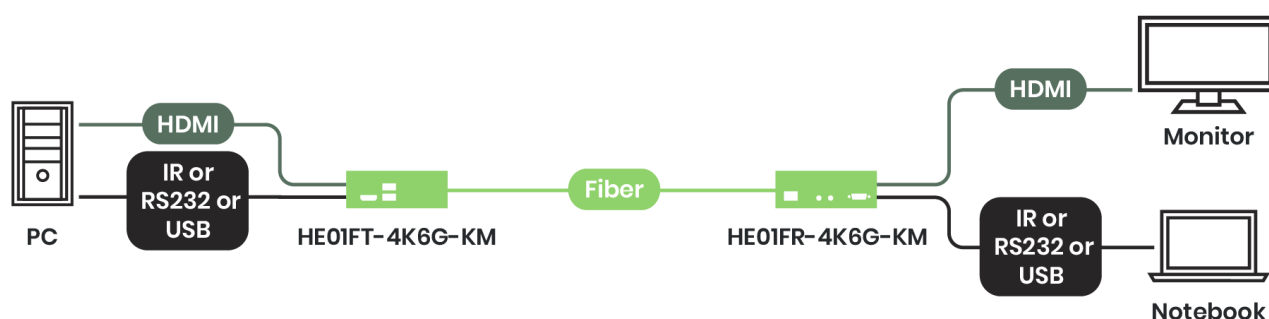
Working Distance

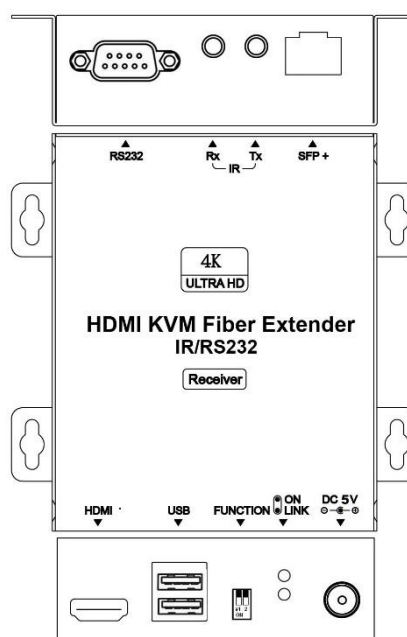The working distance may vary by fiber optical cables and connectors.

Optical Module	Max. Distance
SFP+ Multi-mode	300M
SFP+ Single-mode	10KM

Panel View

HE01FT-4K6G-KM   **HE01FR-4K6G-KM**

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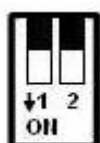
SWITCH	FUNCTION						
SW1	ON	IR Extension	OFF	RS232 Extension	ON	Keyboard & Mouse Extension
SW2	OFF		ON		ON	

RS232

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

Caution

1. Using certified Premium HDMI cable to transfer high-resolution video is recommended.
2. **DO NOT** put IR Emitter/Receiver cable too close with each other to avoid interference.
3. HE01F-4K6G-KM **DOES NOT** support CEC.

Package Includes

Item	Amount
HE01FT-4K6G (Transmitter)	1 pc
HE01FR-4K6G (Receiver)	1 pc
10G SFP+ 10G Multi-mode Optical Transceiver	2pcs
DC5V 2A Power Adapter	2 pcs
IR Emitter Cable	1 pc
IR Receiver Cable	1 pc

Specification

ITEM NO.	HE01FT-4K6G-KM	HE01FR-4K6G-KM
Support		
Compliance	HDMI 2.0, HDCP 2.2, 3D, HDR	
Max. Video Resolution	4K@60Hz 4:4:4 18Gbps	
Max. Transmission Distance	10KM 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, $\pm10°$, 5M, Bi-Directional	30~60KHz, $\pm55°$/ 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