

Mini 4K HDMI Video to Fiber Optical Converter

Overview

Mini 4K HDMI Fiber Converter is developed by our company itself , with independent intellectual property rights . Absorbed the advantages of similiar products at home and abroad ,combined with the actual demand of the market ,through one core/two core optical fiber transmission of 4K30Hz HDMI video signal ,to achieve no delay , no compression ,high-quality signal extension of 1km.

Mini HDMI1.4 optical converter adopts the integrated video processing and photoelectric conversion design ,high integration degree, small volume, its optical devices and core circuits and both improved components ,perfomance stability ,suitable for different working environments .

The Mini HDMI1.4 fiber converter meets the international standard HDCP protocol 1.4, automatically recognizes the EDID, has the power-off EDID memory storage function ,and is downward compatible with version1.3/1.2 .

Mini HDMI fiber converter power consumption is less than 1.5W, using mico-USB port power supply , support charge bank mobile power supply , strong flexibility in use.

Appearance



Features

- 1.Maximum support 4096*2160@30Hz and downward compatible
- 2.Support standard HDM11.4 HDCP1.4

- 3.Support DDC CEC HPD signal
- 4.Support RGB&YCBCR4:4:4 YUV4:4:4 ,4:2:2 ,4:2:0
- 5.EDID transparent transmission
- 6.Support Single /Dual Fiber single mode transmission 1km
- 7.Delay < 2 ms
- 8.Support for hot plug
- 9.Support power-off EDID memory storage function
- 10.Support power bank charger

Technical Indexes

Parameter	Specifications
Rate per channel	10Gbps
Power consumption	<1.5W
Power supply	5V
Maximum resolution	4096*2160@30Hz
Refresh frequency	Up to 30 Hz
Color depth	Up to 48-bit
Wavelength	Dual Fiber 1310nm , single fiber 1310nm--1550nm
Bit Error Rate Performance	1.00E-12
Laser output power	TX power >-3 db RX Sensitivity >-10 db
Dimensions	79*20*10mm
Packing size	210*160*46mm
Weight	0.25kg/pair
Electrical Interface	19 Pins HDMI Type Port 5 Pins USB Standard B
Operating temperature	Working Temperature: -20°C ~70°C Storage Temperature: -40°C ~85°C

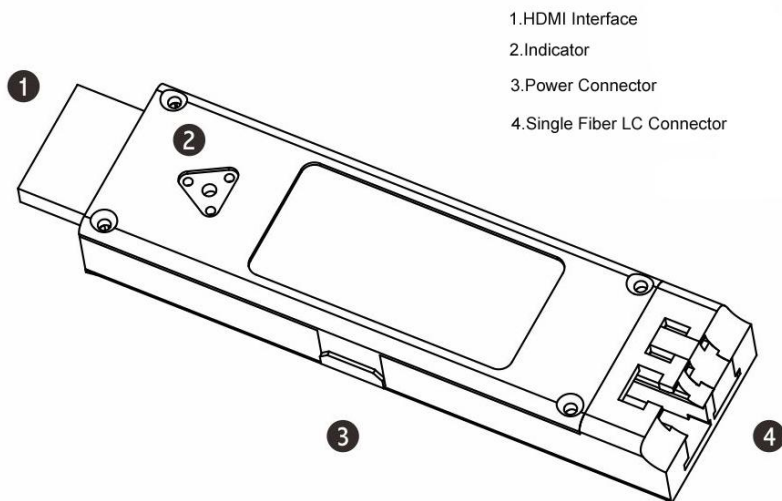
Packing list

HL-MN-4KMI-1V-TL	Transmitter	1 pcs
HL-MN-4KMI-1V-RL	Receiver	1 pcs
Micro-USB interface +5V adapter		2 pcs

User's Manual

Please check carefully whether the above items are included , If any item(s) missing, please contact the manufacturer.

Indicator Status Description



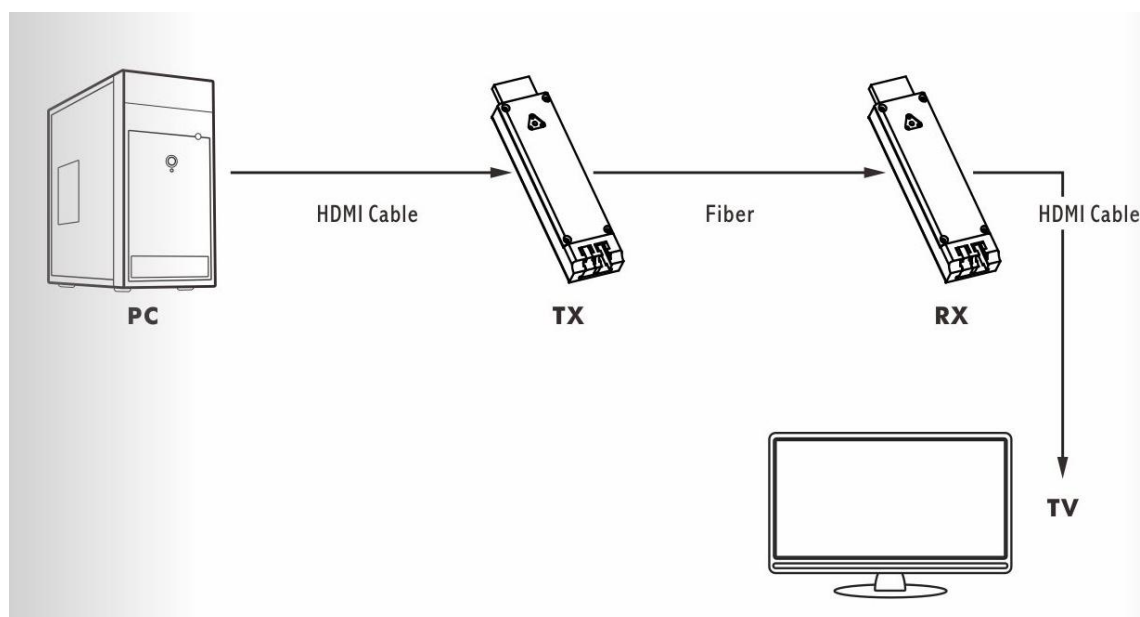
Transmitter powered on —— red light

Receiver powered on —— red light

Transmitter video input —— purple light

Fiber signal status —— purple light (if red light is on means no fiber signal)

Connection Diagram



Link Steps

1. HDMI optical transmitter connect to HDMI video sources
2. HDMI optical transmitter insert to LC fiber
3. HDMI optical transmitter USB plug in to +5V power supply
4. HDMI optical receiver connect to monitor
5. HDMI optical receiver insert to LC connector and connect to HDMI optical transmitter
6. HDMI optical receiver USB plug in to +5V power supply

Ordering Information

Model Number		Fiber Mode	Transmission Distance	Fiber Connector
Transmitter	Receiver			
HL-MN-4KMI-1V-TL	HL-MN-4KHDMI-1V-RL	SM /SF	1km	LC
HL-MN-4KMI-1V-TL	HL-MN-4KHDMI-1V-RL	SM /DF	1km	LC

Note:

- The Optical Power Budget data fit Multit-mode(62.5/125m), Single-Mode(9/125m).
- Optical transmission distance is limited to optical loss of the fiber and any additional loss introduced by connectors, splices and patch panels.
- Maximum transmission distance is also limited by fiber bandwidth.

- Power adapter is manufactured by third party and is supplied with fitted screw-terminal output cables. Power adapter is compatible with (for standalone) US, European, UK or Australian power plug.