beetek

M1-HDMI1.4

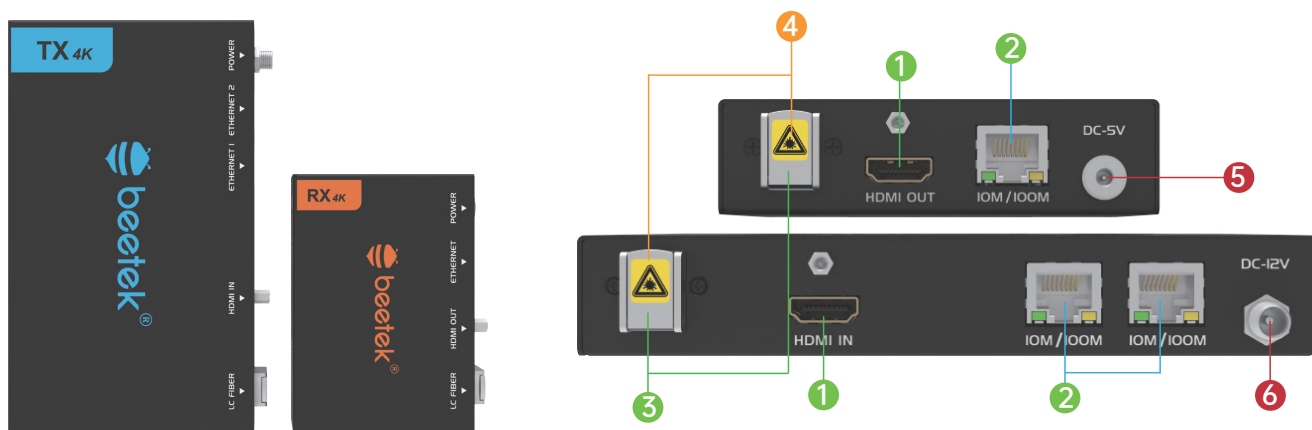## One-core Single-mode HDMI1.4 Fiber Extender +RJ45

Product number: 2.01

Summary

M1-HDMI1.4 is an uncompressed, zero-frame delay HDMI single-mode fiber extender that transmits an HDMI 1.4 signal losslessly up to 300 meters through a one-core LC single-mode fiber. The maximum resolution is 3840*2160@30Hz 4:4:4, and it also has a two-way 100 Gigabit Ethernet interface for data and control signals. The full-featured HDMI interface supports transparent EDID transmission, HDCP, ARC, CEC and 3D, plug and play. Designed with locking power supplies and dust-proof fiber interface latches, this product makes your signal transmission more reliable and suitable for long-distance HDMI extension in harsh environments. An optional 1U rack tray is available for cabinet installation.
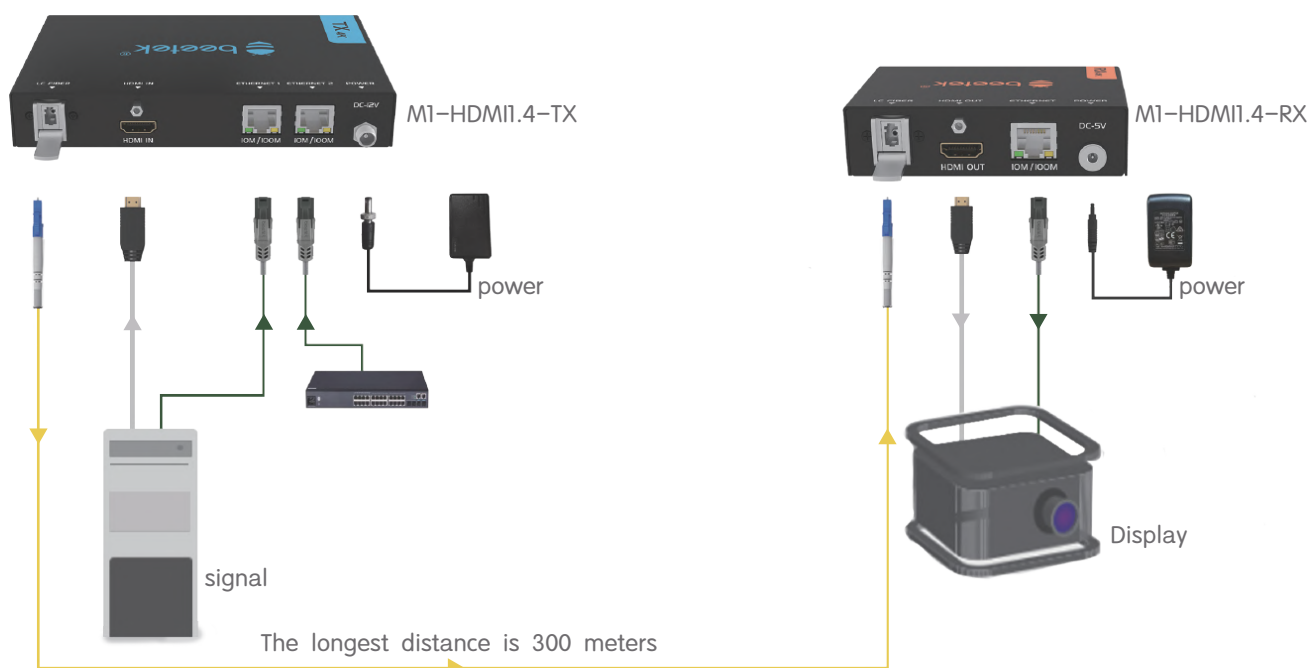
EDID LEARNING	HDMI 1.4	Zero frame delay	uncompressed	HDCP 2.2	3D threedimensional

Product view

number	name	number	name
❶	HDMI TypeA (M)	❺	DC 5V port
❷	RS232 interface	❻	DC 12V port
❸	Dust cover		
❹	LC fiber interface		

Technical characteristics

✦ One-core single-mode HDMI 1.4 + Ethernet fiber extender.

✦ Lossless video extension without compression and zero-frame delay ensure a 100% restoration of the source signal.

✦ The transmission rate is 10.2Gbps, supporting up to 3840*2160@30Hz.

✦ Single-mode G657.A1 fiber with one-core LC connector can transmit up to 300 meters.

✦ 100 Gigabit Ethernet interface supports two-way data and control signal transmission.

✦ Supports transparent EDID transmission for various professional audio and video applications.

✦ Four-way indicator light for signal, power supply, Ethernet, and hot-plug allow you to quickly troubleshoot.

✦ Reliable connection is ensured with locking power supplies and dust-proof fiber interface latches.

✦ Full-featured HDMI 1.4 interface supports HDCP, ARC, CEC and 3D

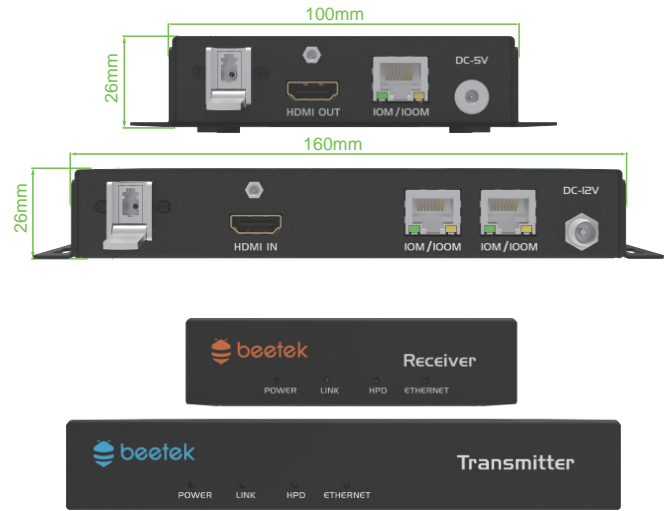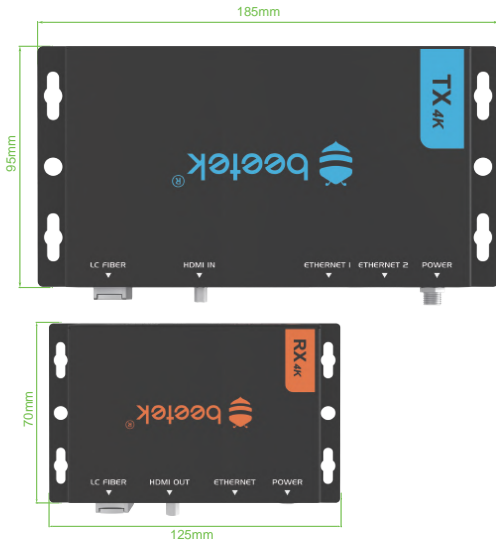✦ Optional 1U rack tray available for cabinet installation.

Application view

M1-HDMI1.4-TX

M1-HDMI1.4-RX

power

power

signal

Display

The longest distance is 300 meters

━━━ Single-mode optical fiber(LC)
━━━ HDMI cable
━━━ Ethernet cable

Product parameter

name	parameter
Signal	HDMI1.4
Input Connector	TX : HDMI Type A Female, RJ45 *2 ; RX: Single-core LC
Output Connector	TX : Single-core LC; RX: HDMI Type A Female, RJ45 *2
Locking HDMI Port	Yes
Fiber Interface Dust Prevention	Yes
Fiber Type	Single-mode G657.A1
Indicator LED	Signal, Power, Network port and Hot-plug 4 way indicator
Locking power connector	Yes
Power Consumption	TX:DC 12V 2A RX:DC 5V
Ambient Temp	-20°C ~ 70°C
Material	Metal mold
Dimensions	TX: 185 *95 *26mm; RX : 125 *70 *26mm
Weight	TX: 0.53kg; RX: 0.35kg
Package Dimensions	270 *157 *136mm
Packaging Weight	1.3kg
DDC	Yes
Ethernet	Supports bidirectional 100M Ethernet
HDMI Audio	Yes
3D	Yes
CEC	Yes
ARC	Yes
HDCP	Yes
XvYCC Color Space	Yes
Optical Module	1*12G , 2*2.5G 3-channel single-mode optical module
Technical Characteristics	Circuit Multiplexing SerDes Technology, 3-wave CWDM Technology
Optical module life	100,000 Hours
Resolution	3840x2160@30Hz
Transmission Distance	Single-mode 300M
Clock Bandwidth	340MHz * 3
Transmission Speed	10.2Gbps
Balancing Chip	Automatic equalization
Reclocking	Yes
ESD Protection	Yes
Hot Plug	Yes
Delay	Zero-frame
Compression	None
Sampling Rate	Bandwidth Range: 8~16bit
Sampling Ratio	RGB 4:4:4 、YUV 4:4:4、YUV 4:2:2、YUV 4:2:0

One core single mode HDMI1.4 fiber extender

Dimensional drawing

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- Product weight   TX: 0.53kg; RX: 0.35kg
- Package size   270 *157 *136mm
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