



M1-110GH

One core multi-mode HDMI 2.0 Fiber expander

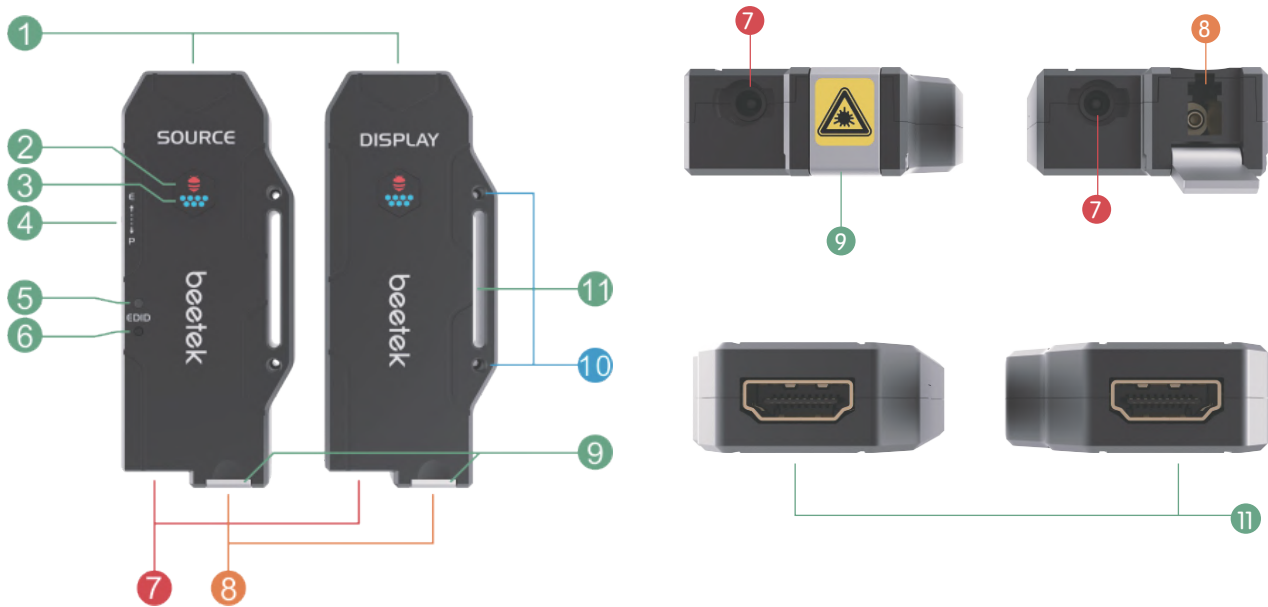
Product number:1.02

Summary

M1-110GH is an uncompressed, zero-frame delay compact HDMI multi-mode fiber extender. This product uses a multi-mode optical fiber with an LC interface, which can transmit a lossless HDMI 2.0 signal up to 500 meters, and supports a maximum resolution of 3840*2160@60Hz 4:4:4. There are three EDID modes consisting of built-in, learning, and transparent transmission. There are EDID learning and mode switching buttons, which are suitable for various scenarios. The full-featured HDMI interface supports HDCP, ARC, CEC, 3D, and plug-and-play. A "C-LOCK" HDMI connector, lockable power supplies, and dust-proof fiber interface latch makes signal transmission more reliable, and is suitable for long-distance HDMI extension in harsh environments. Matching Velcro strap and rack tray are available for fixed installations.



Product view

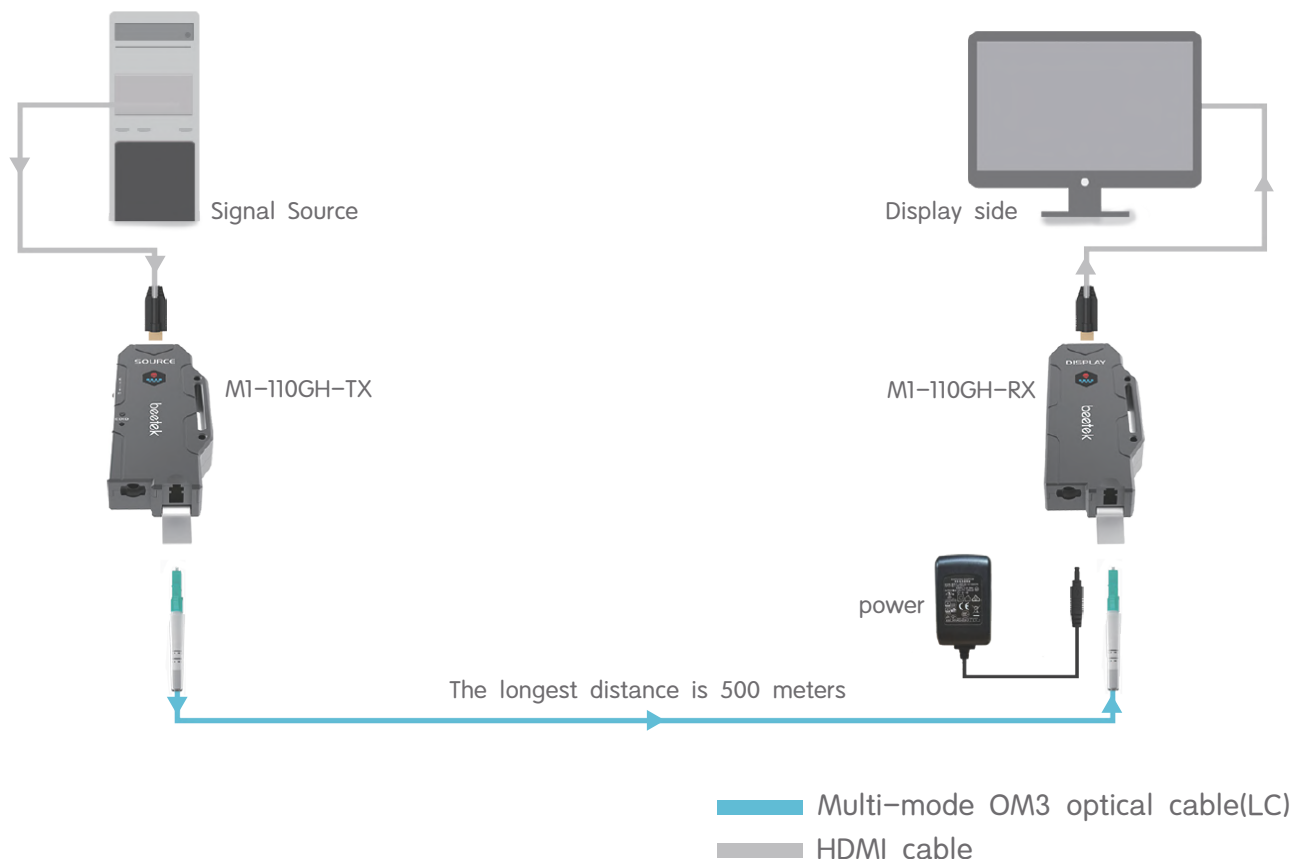


number	name	number	name
①	HDMI Type-A (F)	⑦	DC 5V power port
②	POWER red LED	⑧	LC fiber interface
③	HPD blue LED	⑨	Dust cover
④	EDID mode dip switch	⑩	M2 screw hole
⑤	EDID Blue indicator	⑪	Magic belt long through hole
⑥	EDID Learning button		

Technical characteristics

- ◆ Mini-style one-core multi-mode HDMI 2.0 optical fiber extender.
- ◆ Lossless video extension without compression and zero-frame delay, with 100% restoration of source signal.
- ◆ The transmission rate is 18Gbps, supporting up to 3840*2160@60Hz.
- ◆ Multi-mode OM3 fiber with one-core LC connector can transmit up to 500 meters.
- ◆ Mini-style design with Velcro strap hole and optional 1U rack tray make installation easy.
- ◆ Automatic equalization of input signals improves signal stability.
- ◆ Reliable connection is ensured with locking power supplies and dust-proof fiber interface latches.
- ◆ To solve the pain-point of power supply, the transmitter can pull power, and there is also an optional USB power supply cable provided.
- ◆ Multiple EDID modes of transparent EDID transmission and EDID learning make the product suitable for various environments.
- ◆ Full-featured HDMI 2.0 interface supports HDR, HDCP, ARC, CEC and 3D

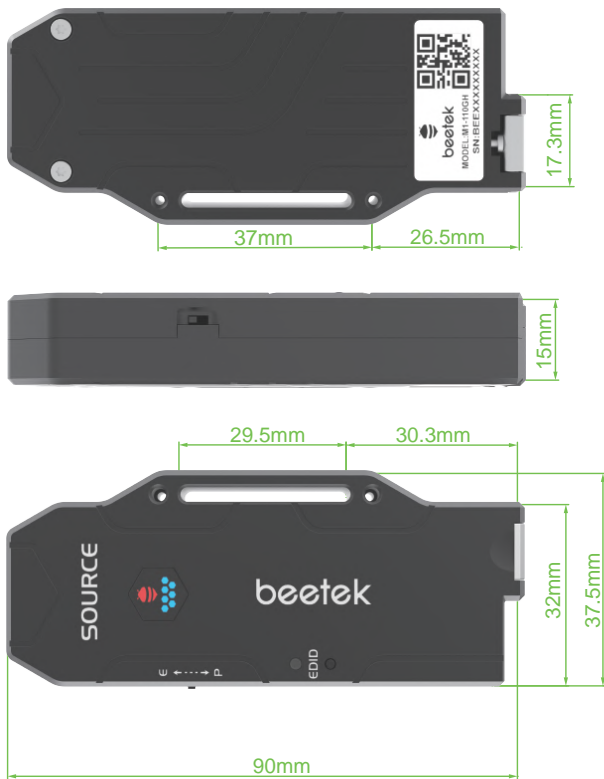
Application view



Product parameter

name	parameter
Input Connector	TX: Female HDMI Type A; RX: Single-core LC
Output Connector	TX: Single-core LC; RX: Female HDMI Type A
Fiber Interface Dust Prevention	Yes
Fiber Type	Multi-mode OM3
Indicator LED	TX\RX: Signal, power two-in-one indicator TX: EDID Indicator light
USB Power	Yes
Power from connector (TX)	Yes
Locking power connector	Yes
Power Consumption	DC 5V 1.0A
Ambient Temp	-20℃~70℃
Material	Zinc alloy mold
EDID Switch (TX)	Learn button and Mode button
EDID Modes	Transparent, Learning and Internal
DDC	Yes
HDMI Audio	Yes
3D	Yes
CEC	Supports in EDID pass-through mode
ARC	Supports in EDID pass-through mode
HDCP	Supports in EDID pass-through mode
XvYCC Color Space	Yes
HDR	Yes
Optical Module	4*8G , 2*2.5G Multi-mode Optical Module
Technical Characteristics	6-wave CWDM Technology
Fiber module life	100,000 Hours
Frequency	3840*2160@60Hz
Transmission Distance	Multi-mode OM3 500M
Clock Bandwidth	600MHz*3
Transmission Speed	18Gbps
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、YUV4:4:4、YUV4:2:2、YUV4:2:0

Dimensional drawing



- Product size TX\RX: 90 *37.5 *15mm
- Product weight TX: 120g; RX: 118g
- Package size 212 *201* 62mm
- Packing weight 0.54kg