



One-Core Multi-mode HDMI 2.1 Fiber Optic Extender

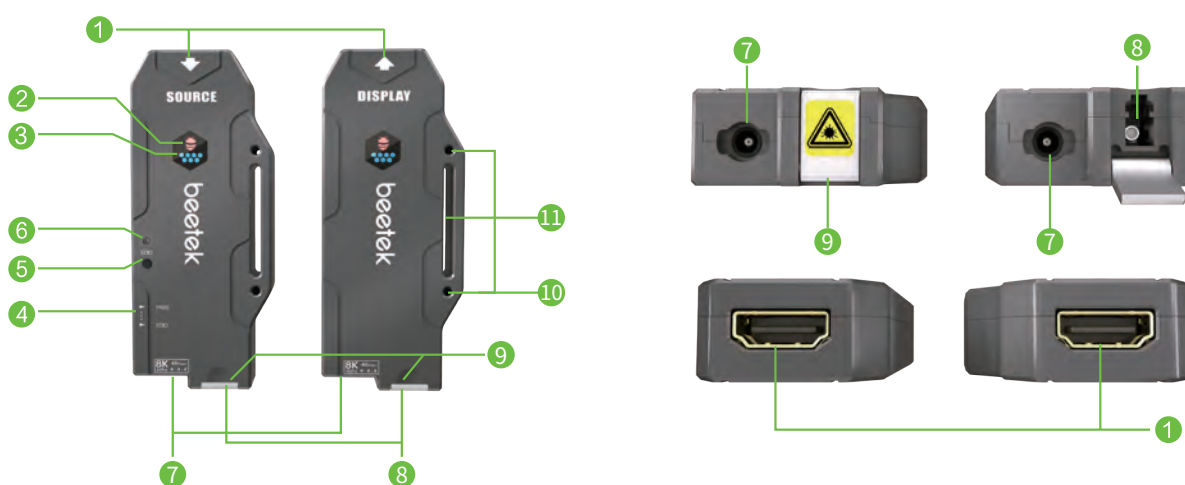
Product number: 990108

Product Overview

M1-110GH8K is an uncompressed, zero-frame delay compatible HDMI multi-mode fiber extender, supporting a maximum resolution of 7680*4320@60Hz 4:4:4. This extender can transmit a lossless HDMI2.1 signal over one LC multi-mode optical fiber up to 300 meters on OM3. There are three EDID modes, consisting of internal, learning and pass-through. The EDID learning button and the mode switch make it suitable for various scenarios. The full-featured HDMI interface supports HDCP, ARC, CEC, 3D for easy use. The power adapter with locking function and the duct-proof cover for the LC interface make the extender reliable and work suitable in harsh environment. The velcro strap and the rack tray are optional for easy set-up.



Product Detail Drawing

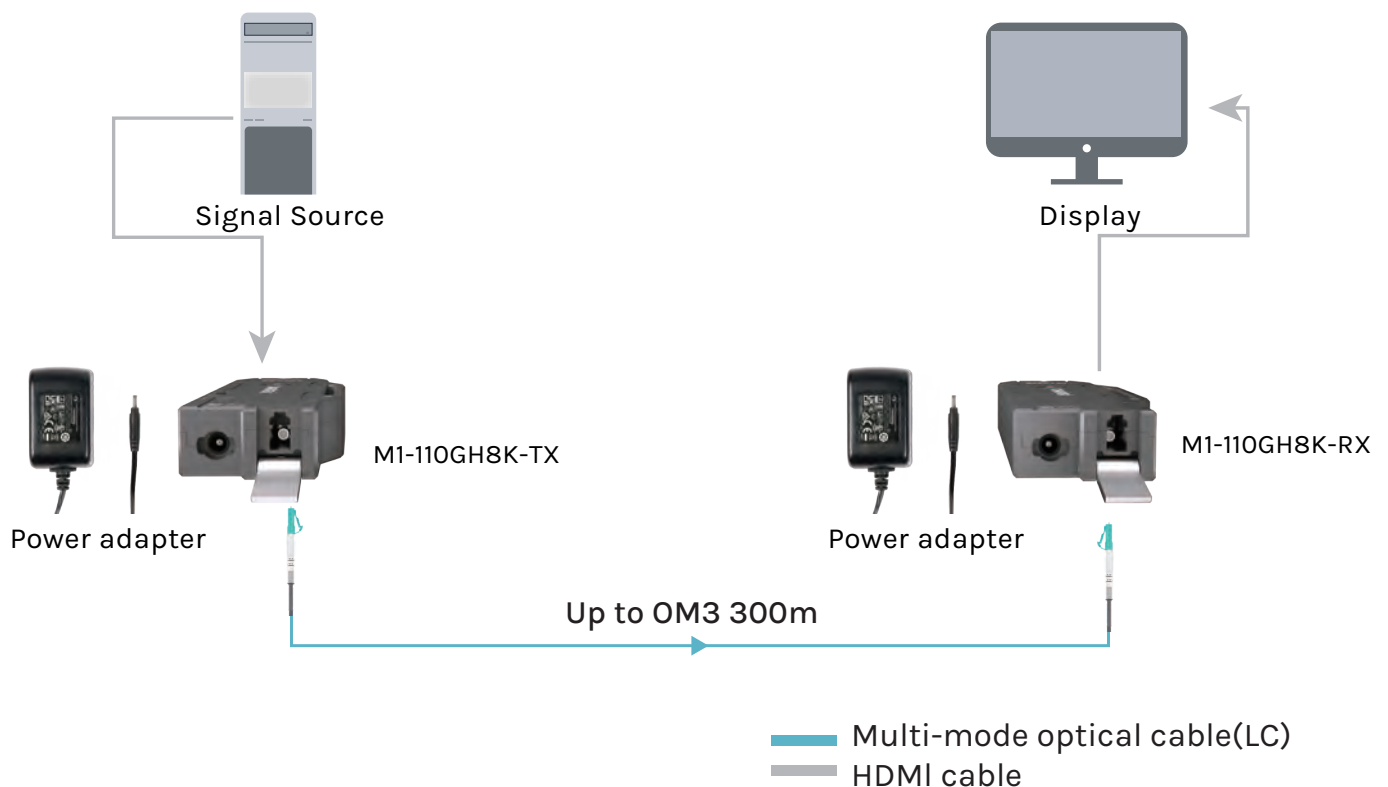


Number	Name	Number	Name
①	HDMI Type-A(F)	⑦	DC 5V power port
②	POWER Red LED	⑧	LC fiber interface
③	FIBER LINK status LED	⑨	Dust cover
④	EDID mode dip switch	⑩	M2 screw hole
⑤	EDID learning button	⑪	Slot for Velcro strap
⑥	EDID Blue LED(While working normally, the LED is ON in pass-through mode and OFF in EDID learning mode.)		

Product Features

- Mini-style one-core multi-mode HDMI2.1 optical fiber extender
- No compression and zero frame delay, 100% restore the original source signal
- Resolution up to 7680*4320@60Hz, transmission rate 48Gbps
- Support one LC multi-mode optical fiber up to 300 meters on OM3
- Optional accessories of velcro strap and 1U rack tray for easy installation
- Automatic equalization to keep the signal stability
- Power adapter with locking function and dust-proof cover for LC interface keep reliable
- Automatic power acquisition at Transmitter and USB power cord optional for good application
- Multi-mode EDID with internal, learning and pass-through is suitable for various scenarios
- Full-featured HDMI interface supports HDCP, ARC, CEC, 3D

Application Diagram

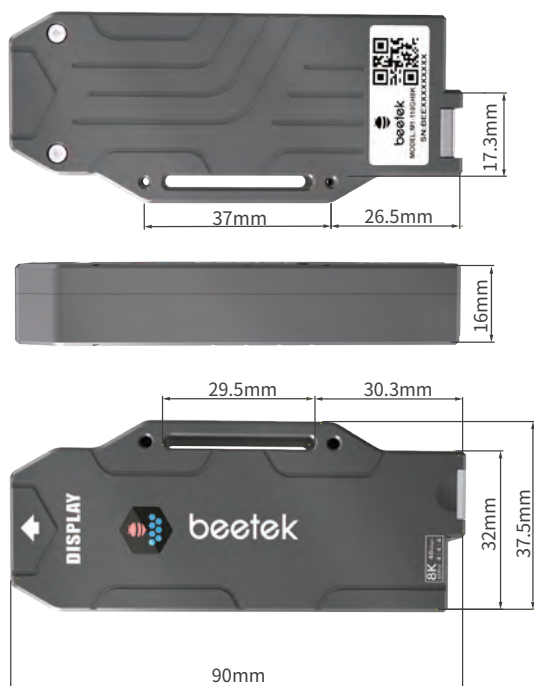


Product Parameter

Name	Specification
Model	M1-110GH8K
Input Connector	TX:HDMI Type A Female ; RX: One-core LC
Output Connector	TX:One-core LC; RX: HDMI Type A Female
Fiber Interface Dust-proof	Yes
Fiber Type	Multi-mode OM3
Indicator LED	TX\RX: Signal, power two-in-one indicator TX: EDID Indicator LED
USB Power Cord	Yes
Power from connector(TX)	Yes
Locking power connector	Yes
Power Supply	DC 5V 1.0A
Operating Temperature	-20 °C~70°C
Material	Aluminum alloy CNC machining
EDID Switch(TX)	Pass-through mode and Learning mode
EDID Button	Yes
EDID Modes	Pass-through, Learning and Internal
DDC	Yes
HDMI Audio	Yes
3D	Yes
CEC	Support in EDID pass-through mode
ARC	Support in EDID pass-through mode
HDCP	Support in EDID pass-through mode
XvYCC Color Space	Yes
HDR	Yes
Optical Module	4*12G , 2*2.5G Multi-mode
Technology	6 wavelength SWDM

Name	Specification
Resolution	7680*4320@60Hz
Transmission Distance	OM3 300m
Clock Bandwidth	12Gbps*4
Transmission Speed	48Gbps
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 *16mm
- Product weight: TX:84g ; RX:86g



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