

M1-HDMI2.0

One core single mode HDMI2.0 fiber extender
+RS232+RJ45

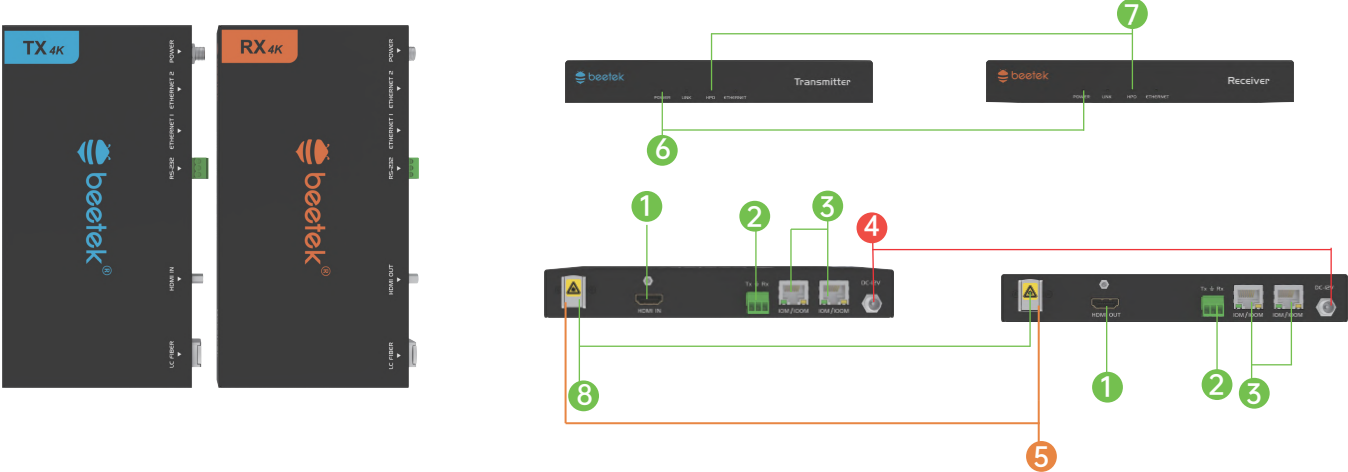
Product number:2.02

Summary

M1-HDMI2.0 is an uncompressed, zero-frame delay HDMI single-mode fiber extender that transmits an HDMI 2.0 signal losslessly up to 300 meters through a single LC fiber. The maximum resolution is 3840*2160@60Hz 4:4:4, and it has two-way 100 Gigabit Ethernet and RS232 interfaces for two-way transmission of data and control signals. Full-featured HDMI 2.0 interface supports transparent EDID transmission, HDR, HDCP, ARC, CEC and 3D, plug and play. We designed this product with locking power supplies and dust-proof fiber interface latches which make signal connection more reliable. An optional 1U rack tray is available for cabinet installation, making it suitable for long-distance HDMI signal transmission in a variety of environments.



Product view

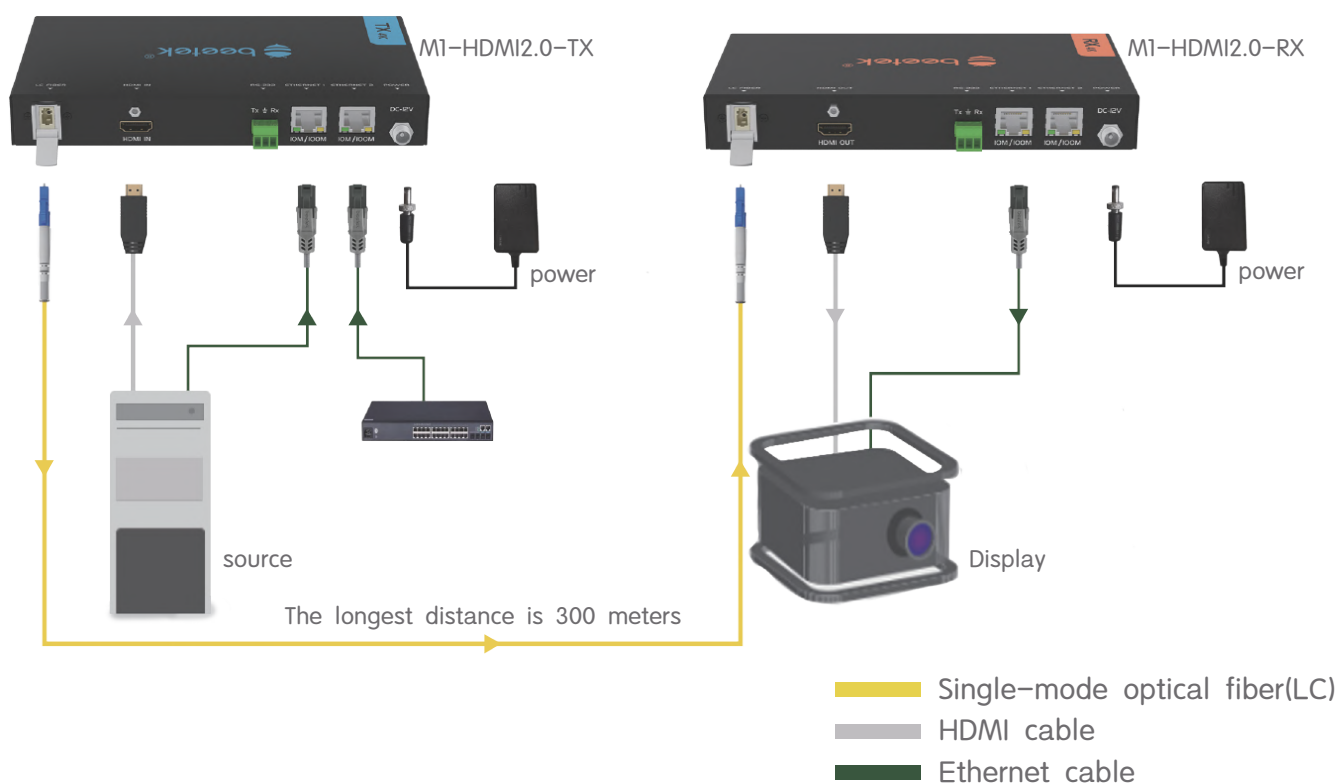


| number | name | number | name |
|--------|-----------------|--------|--------------------|
| 1 | HDMI TypeA (F) | 5 | LC fiber interface |
| 2 | RS232 interface | 6 | POWER Red LED |
| 3 | RJ45 interface | 7 | HPD Blue indicator |
| 4 | DC 12V port | 8 | Dust cover |

Technical characteristics

- ✦ One-core single-mode HDMI 2.0+Ethernet+RS232 fiber extender.
- ✦ Lossless video extension without compression and zero-frame delay ensure a 100% restoration of the source signal.
- ✦ The transmission rate is 18Gbps, supporting up to 3840*2160@60Hz.
- ✦ 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 2.0 supports HDR, HDCP, ARC, CEC and 3D.
- ✦ Optional 1U rack tray available for cabinet installation.

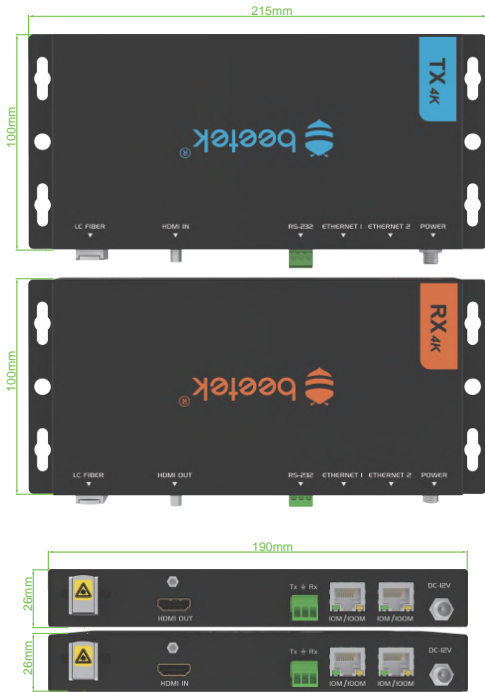
Application view



Product parameter

| name | parameter |
|---------------------------------|--|
| Signal | HDMI 2.0 |
| Input Connector | TX : HDMI Type A Female, RS232, RJ45 *2 ; RX: Single-core LC |
| Output Connector | TX : Single-core LC; RX: HDMI Type A Female, RS232, RJ45 *2 |
| 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 | DC 12V 2A |
| Ambient Temp | -20° C ~ 70° C |
| Material | Metal mold |
| Dimensions | TX: 215 *100 *26mm; RX: 215 *100 *26mm |
| Weight | TX : 0.6kg ; RX: 0.6kg |
| Package Dimensions | 270 *157 *136mm |
| Packaging Weight | 1.7kg |
| DDC | Yes |
| Ethernet | Supports bidirectional 100M Ethernet |
| RS232 | Supports bidirectional RS232 |
| HDMI Audio | Yes |
| 3D | Yes |
| CEC | Yes |
| ARC | Yes |
| HDCP | Yes |
| HDR | Yes |
| XvYCC Color Space | Yes |
| Optical Module | 4*10G , 2*2.5G 6-channel single-mode optical module |
| Technical Characteristics | 6-wave CWDM Technology |
| Optical module life | 100,000 Hours |
| Resolution | 3840 * 2160@60Hz |
| Transmission Distance | Single-mode 300M |
| 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 、 YUV 4:4:4、 YUV 4:2:2、 YUV 4:2:0 |

Dimensional drawing



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