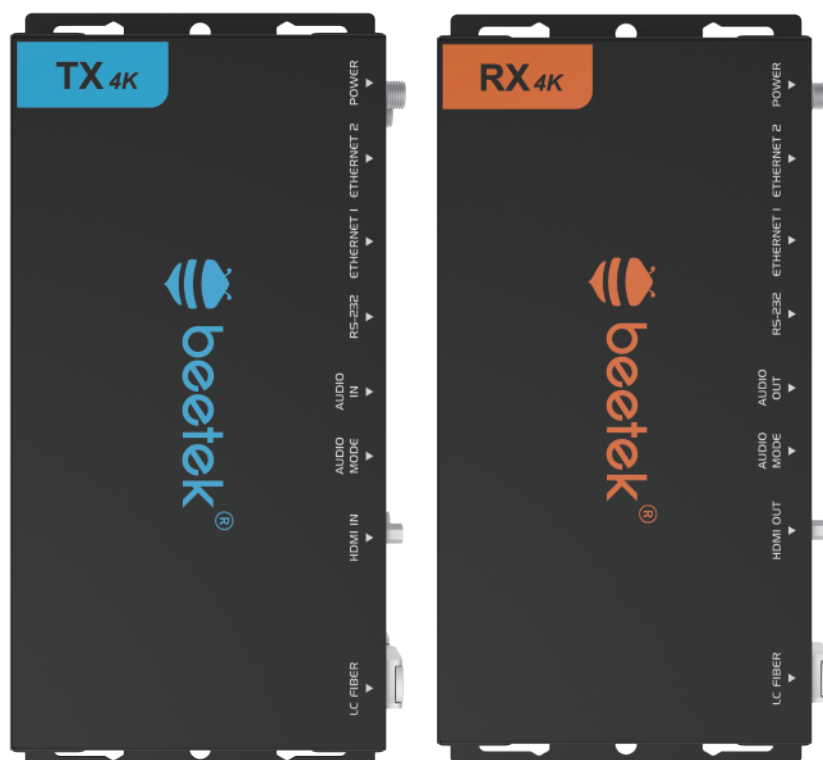


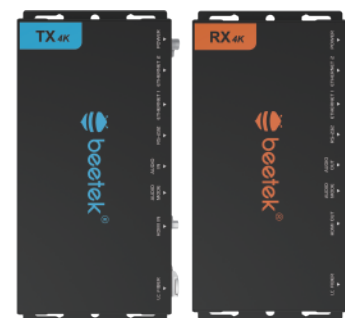


## One-core Single-mode HDMI 2.0 Fiber Optic Extender+ RJ45+ RS232

Product number: 880105

## Product Overview

The M1-HDMI2.0 is an uncompressed, zero-frame delay HDMI single-mode fiber extender that transmits an HDMI 2.0 signal losslessly up to 700 meters through a single LC fiber with resolutions up to 3840\*2160@60Hz, and it has two-way 100M Ethernet and RS232 interfaces for two-way transmission of data and control signals, and new features include independent audio and embedded/de-embedded transmission. Full-featured HDMI interface supports pass-through EDID transmission, HDR, HDCP, ARC, CEC and 3D, plug and play. This product with locking power supplies and dust-proof fiber interface latches make signal connection more reliable. An optional 1U rack tray is available for mounting, making it suitable for long-distance HDMI signal transmission in a variety of environments.



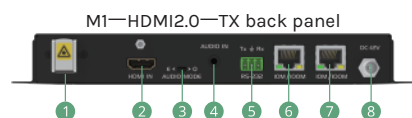
## Product Features

- One-core single-mode HDMI 2.0+Ethernet RJ45+RS232 fiber extender.
- Supports lossless, uncompressed, and delay-free high-speed signal transmission, 100% restoration of the source signal.
- Supports resolutions up to 3840\*2160@60Hz and 18Gbps data transmission rate.
- Supports distance up to 700 meters with one core LC cable of single-mode optical fiber.
- Two-way 100M Ethernet RJ45 interfaces and one RS232 interface support two-way data and control signal transmission.
- Supports pass-through EDID transmission for various professional audio and video applications.
- Four-way indicator lights for signal, power supply, Ethernet RJ45, and hot-plug allow you to quickly troubleshoot.
- Reliable connection is ensured with locking power supplies, locking HDMI interface and dust-proof fiber interface latches.
- Full-featured HDMI 2.0 supports HDR, HDCP, ARC, CEC and 3D.
- Optional 1U rack tray available for rack mounting.
- New features include independent audio, emdedding and de-embedded transmission.

## Product Views



| Number | Name                          |
|--------|-------------------------------|
| 1      | POWER indicator light         |
| 2      | Fiber link indicator light    |
| 3      | HPD hot-plug indicator light  |
| 4      | Ethernet RJ45 indicator light |

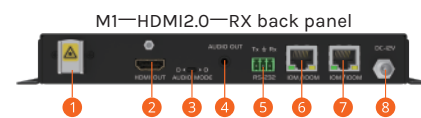


| Number | Name                          |
|--------|-------------------------------|
| 1      | 1*LC fiber interface          |
| 2      | HDMI2.0 video input interface |
| 3      | Audio mode dip switch         |
| 4      | Audio input                   |
| 5      | RS232 interface               |
| 6      | 10M/100M Ethernet RJ45 port 1 |
| 7      | 10M/100M Ethernet RJ45 port 2 |
| 8      | DC 12V power input port       |

Audio dip switch—E: Audio embedding mode/ O: Independent audio mode



| Number | Name                          |
|--------|-------------------------------|
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| 2      | Fiber link indicator light    |
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| 4      | Ethernet RJ45 indicator light |



| Number | Name                           |
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| 1      | 1*LC fiber interface           |
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| 3      | Audio mode dip switch          |
| 4      | Audio output                   |
| 5      | RS232 interface                |
| 6      | 10M/100M Ethernet RJ45 port 1  |
| 7      | 10M/100M Ethernet RJ45 port 2  |
| 8      | DC 12V power input port        |

Audio dip switch—D: Audio de-embedding mode/ O: Independent audio mode

## Product Specifications

### Name

### Specifications

Signal Type

HDMI 2.0

Input Connector

TX: HDMI Type-A Female, AUDIO IN, RS232, RJ45\*2;  
RX: LC\*1

Output Connector

TX: LC\*1;  
RX: HDMI Type-A Female, AUDIO IN, RS232, RJ45\*2

Fiber Interface Dust Prevention

Yes

Fiber Type

Single-mode

Indicator LED

Signal, Power, Network port and Hot-plug 4 way indicator

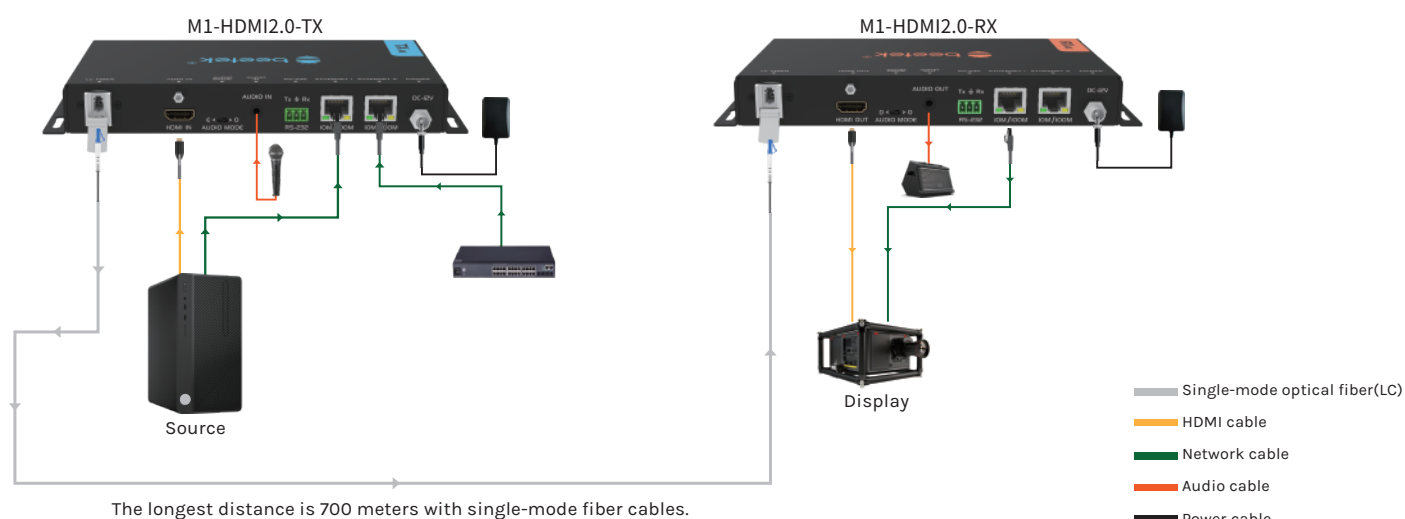
Locking Power Connector

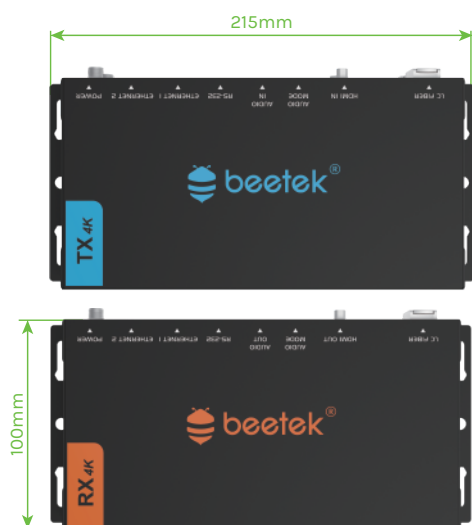
Yes

| Name                      | Specifications                                     |
|---------------------------|----------------------------------------------------|
| Power Consumption         | DC 12V 2A                                          |
| Ambient Temp              | -20°C ~ 70°C                                       |
| Material                  | Metal mold                                         |
| Product Dimensions        | TX/RX: 215 *100 *26mm                              |
| Product Weight            | TX/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                                                |
| Audio Embedding           | Yes                                                |
| Audio De-embedding        | Yes                                                |
| Independent Audio         | 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 700M                                   |
| Clock Bandwidth           | 600MHz *3                                          |
| Transmission Rate         | 18Gbps                                             |
| Balancing Chip            | Automatic equalization                             |
| Reclocking                | Yes                                                |

| Name           | Specifications                             |
|----------------|--------------------------------------------|
| 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 |

## Application Diagram





Product weight: 【TX/RX】 0.6kg



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