

M1-DP14Rr

One-core Single-mode DP 1.4 Fiber Extender +IR+232

Product number:2.04

Summary

The **M1-DP14Rr** is an uncompressed, zero-frame delay single-mode Display Port fiber extender that transmits a DP 1.4 signal up to 300 meters losslessly over a single LC fiber. Supports resolutions up to 7680x4320@30Hz 4:4:4 while also transmitting RS232 and IR interfaces to support bidirectional control signals. The full-featured DP interface supports HDCP, ARC, and 3D, extended USB, extended audio channels, and plug and play. 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

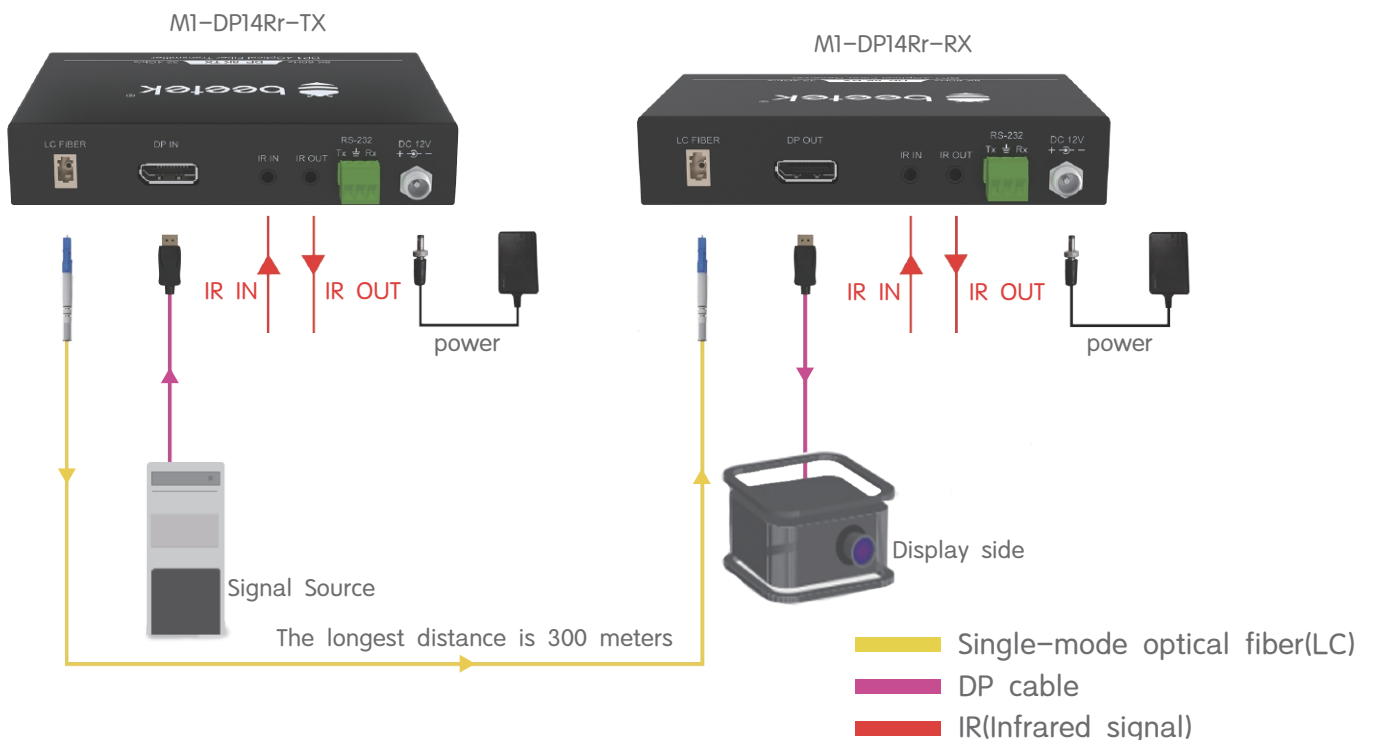


number	name	number	name
1	LC fiber interface	5	DC 12V port
2	DP interface		
3	IR		
4	RS232 interface		

Technical characteristics

- ◆ One-core single-mode DP 1.4 + IR + RS232 fiber extender.
- ◆ Lossless video extension without compression and zero-frame delay, 100% restoration of source signal.
- ◆ The transmission rate is 32.4Gbps, and the maximum support is 7680x4320@30Hz 4:4:4.
- ◆ Single-mode G657.A1 optical fiber with one-core LC connector, which can transmit up to 300 meters.
- ◆ It has a two-way IR and a two-way RS232 interface, supporting the transmission of control signals.
- ◆ Transparent EDID transmission over the AUX channel make it suitable for professional audio and video applications.
- ◆ The four-way LED indicator light for signal, power supply, Ethernet, and hot-plug detect make troubleshooting fast and easy.
- ◆ Locking power interfaces, and dust-proof optical fiber latches ensure a reliable connection.
- ◆ Full-featured DP 1.4 supports extended USB 3.1, HDR, HDCP, ARC and 3D.
- ◆ Optional 1U tray is available for cabinet installation.

Application view



Product parameter

name	parameter
Signal	DP1.4
Input Connector	TX: DP female, IR, RS-232; RX: Single-core LC
Output Connector	TX: Single-core LC ; RX: DP female, IR, RS-232
Fiber type	Single-mode G657.A1
Indicator LED	Signal, Power, Mode, Hot-plug detect
Locking power connector	Yes
Power Consumption	DC 12V 2A
Ambient Temp	-20° C ~ 70° C
Material	Metal mold
Dimensions	TX:160 *85 *26mm; RX:160 *85 *26mm
Weight	TX 0.45kg; RX 0.45kg
Package Dimensions	226 *160 *121mm
Package Weight	1.3kg
AUX	Yes
IR	2-way IR
RS232	2-way RS-232
High-speed Ethernet	Supports expanded high-speed Ethernet
Extended USB	Supports extended USB2.0/USB3.1
Extended Audio	Supports 32 extended audio channels
3D	Yes
CEC	Yes
ARC	Yes
HDCP	HDCP2.2
HDR	Yes
BT.2020 Color space	Yes
Optical Module	4*12G+2*2.5G 6-channel Single-mode Optical Module
Technical Characteristics	6-wave CWDM Technology
Optical Module Life	100,000 Hours
Resolution	7680X4320@30Hz
Transmission Distance	Single-mode 300M
Clock Bandwidth	810MHz * 4
Transmission Speed	32.4Gbps
Balancing Chip	Automatic equalization
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



- Product size TX:160 *85 *26mm; RX:160 *85 *26mm;
- Product weight TX: 0.45kg; RX: 0.45kg
- Package size 226 *160 *121mm
- Packing weight 1.3kg