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## XTENDEX<sup>®</sup> Series

# ST-FODP14-MPO-200M

**8K DisplayPort 1.4 Extender via One MPO Multimode Fiber Optic Cable: Extend up to 200 Meters**

**User Manual**



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**CHANGES**

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## Introduction

The XTENDEX® 8K DisplayPort 1.4 Extender via MPO Fiber Optic Cable locates an Ultra-HD 8K 4320p 60Hz DisplayPort display away from a DP computer up to 656 feet (200 meters) via a male-to-male multimode OM3 type B (crossover) MPO fiber optic cable (8- or 12-strand). Each extender consists of a transmitter that connects to a DisplayPort source, and a receiver that connects to a DisplayPort display.

Using DSC (Display Stream Compression) with HBR3 transmission rates, ST-FODP14-MPO-200M supports 8K UHD (7680x4320) @60Hz. However, if the connected display does not support DSC, then DisplayPort 1.3 standards apply with the max rate of 8K @30Hz.

### Features:

- Signal transmission via an 8- or 12-strand multimode 50-micron OM3 type B (crossover) MPO male-to-male fiber optic cable.
- Supports Ultra-HD 8K resolutions to 7680x4320 @60Hz YUV 4:4:4, Ultra-HD 4Kx2K resolutions to 3840x2160 @120Hz YUV 4:4:4, and HDTV resolutions to 1080p @240Hz.
- DisplayPort features supported:
  - DisplayPort 1.4
  - Multi-Stream Transport (MST)
  - Up to 36-bit Deep Color
  - LPCM
  - YCbCr 4:4:4, YCbCr 4:2:2, and RGB
  - Bandwidth up to 32.4Gbps
- HDCP compliant.
- EDID pass-through for the support of any DisplayPort display device.
- Compact design — connects directly to source/display.
- Cables can be installed in conduit prior to extender installation.
- Supports Plug-n-Play specifications.
- Low RFI/EMI for sensitive applications.

### Material Supplied with this kit:

ST-FODP14-MPO-200M Local and Remote Unit  
1- Power supply- In:100 to 240V, 50/60Hz ; Out: DC 5V, 2A  
URL Slip with Web location of this manual

### Available Material sold separately:

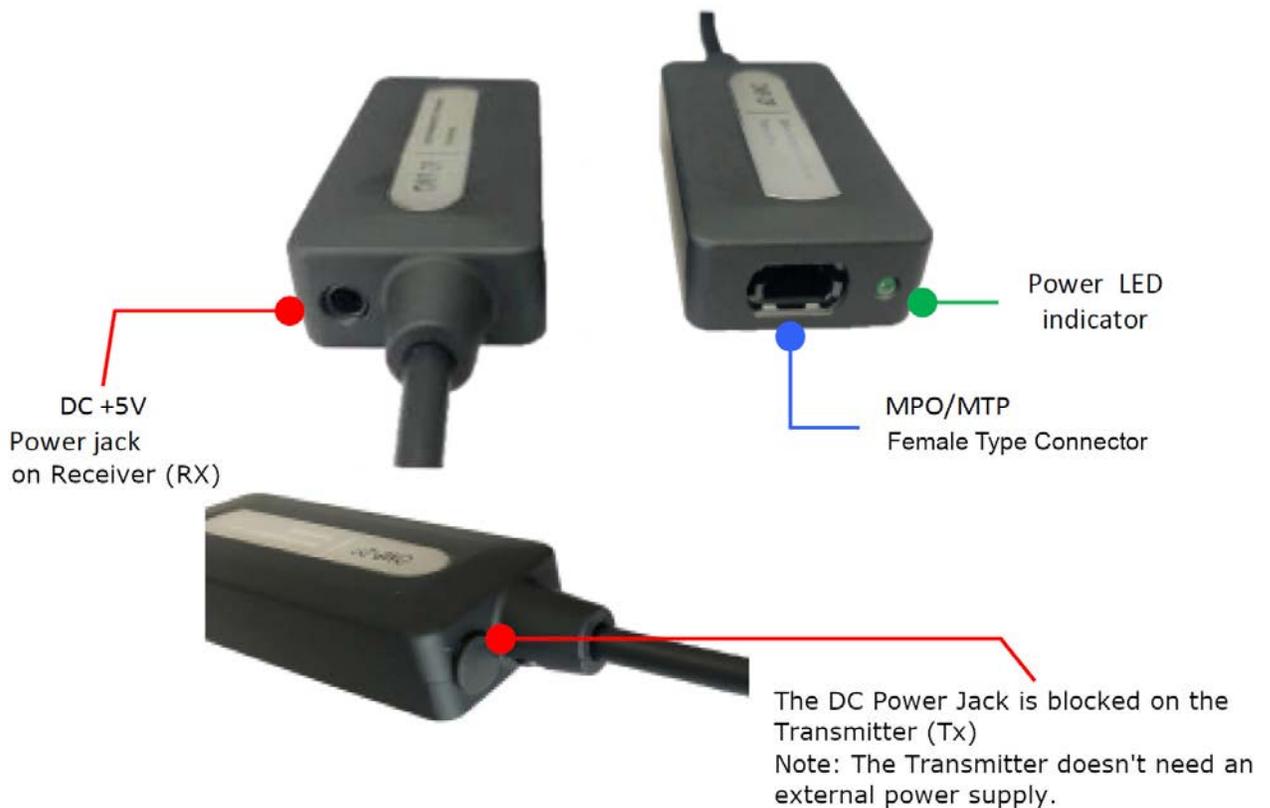
FIBER-MPO12-3B-xxxM-LSZH-MM 12-Strand OM3 Multimode MPO Fiber Optic Cable, LSZH, Type B, Male-Male

- Contact an NTI product consultant for available lengths up to 200 meters.

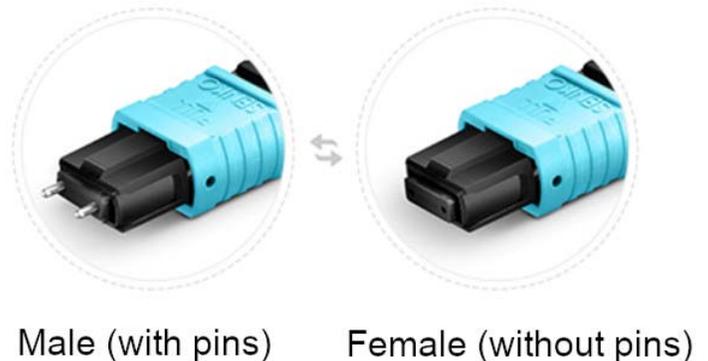
## Installation

This extender system is composed of two individual units, the Transmitter and the Receiver, interconnected by fiber optic cable. MPO OM3 type B (crossover) multimode fiber cabling is required for extension up to 200m.

1. Connect the Transmitter module to the DisplayPort source device.
2. Connect the Receiver module to the display.
3. Connect the MPO/MTP optical cable (8- or 12- strand) from Transmitter to the Receiver.
4. Connect the included +5V DC power supply to the receiver.
5. The Green Power LED indicator on the modules will be illuminated after all connections are complete.



**Note:** An MPO or MTP fiber cable with **male** plugs will be required to connect between the Transmitter and Receiver. NTI # FIBER-MPO12-3B-xxxM-LSZH-MM is available.



## Specifications

Local Unit	<ul style="list-style-type: none"> <li>One male DisplayPort connector for source.</li> <li>One female MPO fiber optic port for sending high-definition video/audio signals.</li> <li>HDCP compliant.</li> </ul>
Remote Unit	<ul style="list-style-type: none"> <li>One male DisplayPort connector for display.</li> <li>One female MPO fiber optic port for receiving high definition video/audio signals.</li> <li>Supported video resolutions: <ul style="list-style-type: none"> <li>Ultra-HD 8K YUV 4:4:4 resolutions (7680x4320 @60Hz)</li> <li>Ultra-HD 4Kx2K YUV 4:4:4 resolutions (3840x2160 @120Hz)</li> <li>HDTV resolutions to 1080p @240Hz.</li> </ul> </li> <li>Supports embedded digital audio through DisplayPort compatible displays or audio receivers.</li> </ul>
Supported Video Resolutions	<ul style="list-style-type: none"> <li>Ultra-HD 8K YUV 4:4:4 8-bit resolutions (7680x4320 @60Hz)(Provided DSC is supported)</li> <li>Ultra-HD 8K YUV 4:2:2 10-bit resolutions (7680x4320 @60Hz) (Provided DSC is supported)</li> <li>Ultra-HD 4K YUV 4:4:4 8-bit resolutions (3840x2160 @120Hz)</li> <li>Ultra-HD 4Kx2K YUV 4:4:4, 8-bit resolutions (3840x2160 @60Hz)</li> <li>HDTV resolutions to 1080p @240Hz.</li> </ul>
EDID	Pass through
DPCP	Supported
DP Compliance	DP 1.4
HDCP	Compliant
Operating Temperature	32 to 122°F (0° to 50°C )
Storage Temperature	-4 to 158°F (-20° to 70°C)
Humidity	20-80% Operating, 10-90% Storage Relative Humidity Non-condensing
Power -Local	Powered by attached video source
Power-Remote	<ul style="list-style-type: none"> <li>Input: 100 to 240 VAC at 50 or 60Hz via AC adapter (included)</li> <li>Output: 5VDC, 2A</li> </ul>
Cables	Use an 8- or 12-strand multimode 50/125-micron OM3 type B (crossover) MPO male-to-male fiber optic cable to extend the receiver from the transmitter up to 656 feet (200 meters) (not included).
Max Distance	Extend to 656 feet (200 meters) using an 8- or 12-strand multimode 50-micron OM3 type B (crossover) MPO male-to-male fiber optic cable.
Dimensions (Local and Remote) WxDxH	Body: 1.22x2.52x0.63 in. (31x64x15.9 mm) Overall length with attached male DisplayPort cable: 11.81 in (300 mm)
Approvals	CE, FCC, RoHS, TAA compliant

	Transmitter (Local Unit)	Receiver(Remote Unit)
Video Connector	DisplayPort Female	DisplayPort Female
Fiber Connector	Female MPO x1	Female MPO x1
Max. data rate	32.4 Gbps	32.4 Gbps
Power Consumption	0.2W (Max.)	0.6W (Max.)
Net Weight	54.431g	54.975g