

# 8K DisplayPort 1.4 Extender via One 12-Strand MPO Multimode Fiber Optic Cable

XTENDEX®

Extend an Ultra-HD 8K 4320p 30Hz DisplayPort display up to 984 feet (300 meters) via fiber



- Signal transmission via a 12-strand multimode 50-micron OM3 type B MPO female-to-female fiber optic cable.
- Supports Ultra-HD 8K resolutions to 7680x4320 @30Hz YUV 4:2:2, Ultra-HD 4Kx2K resolutions to 3840x2160 @60Hz YUV 4:4:4, and HDTV resolutions to 1080p @144Hz.
- 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
  - HDR
  - Bandwidth up to 23.76 Gbps
- HDCP compliant
- EDID pass-through for the support of any DisplayPort display device.
- Cables can be installed in conduit prior to extender installation.
- Supports Plug-n-Play specifications.
- Low RFI/EMI for sensitive applications.

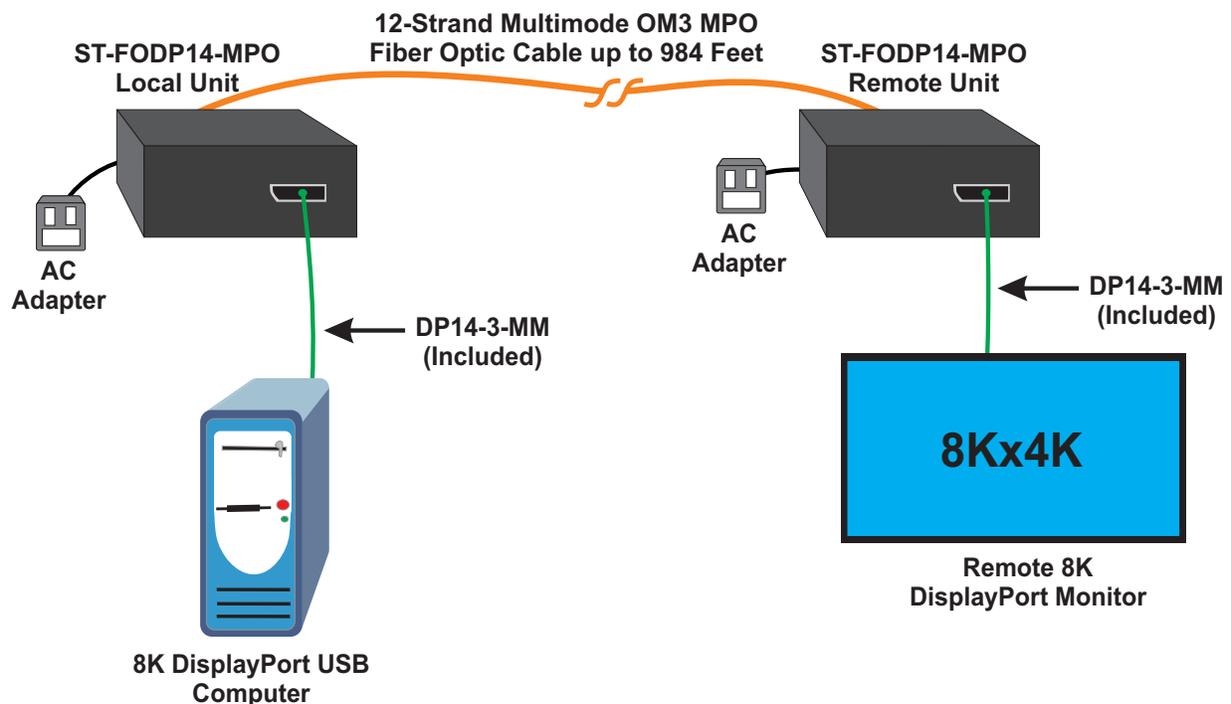


**ST-FODP14-MPO  
(Remote and Local Units)**

- Resolutions to Ultra-HD 8K 4320p 30Hz
- 23.76 Gbps bandwidth
- DisplayPort 1.4
- Use with a 12-strand female-to-female OM3 type B MPO fiber cable

The XTENDEX® 8K DisplayPort 1.4 Extender via MPO Fiber Optic Cable locates an Ultra-HD 8K 4320p 30Hz DisplayPort display away from a DP computer up to 984 feet (300 meters) via a 12-strand female-to-female multimode OM3 type B MPO fiber optic cable. Each extender consists of a transmitter that connects to a DisplayPort source, and a receiver that connects to a DisplayPort display.

## Configuration and Cable Illustrations



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## Specifications

### Local Unit

- One female DisplayPort connector for source.
- One male MPO fiber optic port for sending high definition video/audio signals.
- HDCP compliant.

### Remote Unit

- One female DisplayPort connector for display.
- One male MPO fiber optic port for receiving high definition video/audio signals.
- Supported video resolutions:
  - Ultra-HD 8K YUV 4:2:2 resolutions (7680x4320 @30Hz)
    - ◆ This resolution is only supported when using NTI's DP14-xx-MM cables.
      - Two 3-ft DisplayPort 1.4 cables (DP14-3-MM) included.
  - Ultra-HD 4Kx2K YUV 4:4:4 resolutions (3840x2160 @60Hz)
  - HDTV resolutions to 1080p @144Hz.
- Supports embedded digital audio through DisplayPort compatible displays or audio receivers.
- HDCP compliant.
- Max data rate: 23.76 Gbps

### Power

- Local and remote unit:
  - Input: 100 to 240 VAC at 50 or 60Hz via AC adapter.
  - Output: 5VDC, 3A
- Power consumption (max):
  - Local: 3.1W
  - Remote: 3W

### Dimensions

- Local and remote unit WxDxH (in): 2.95x5.59x1.14 (75x142x29 mm)

### Environmental

- Operating temperature: 32 to 122°F (0 to 50°C)
- Storage temperature: -4 to 158°F (-20 to 70°C)
- Operating and storage relative humidity: 20 to 80% non-condensing RH

### Max Distance

- Extend to 984 feet (300 meters) using a 12-strand multimode 50-micron OM3 type B MPO fiber optic cable.

### Cables

- Use DP14-xx-MM to connect a DisplayPort source/display up to 15 feet from the transmitter/receiver.
  - Two 3-ft DisplayPort 1.4 cables (DP14-3-MM) included.
  - ST-FODP14-MPO only supports 8K@30Hz (4:2:2, 8-bit) and 4K@120Hz (4:2:2, 8-bit) resolutions (23.76 Gbps) when used with NTI's DP14-xx-MM cables. All other DP 1.4 cables will support resolutions to 3840x2160@60Hz (4:4:4, 8-bit).
- Use DP8K-FO-xxM-MMLC to connect a DisplayPort source/display up to 100 meters from the transmitter/receiver (not included).
  - Maximum resolution supported with ST-FODP14-MPO is 3840x2160@60Hz.
- Use USB3C-DP4K-xx-MM to connect a computer, tablet, or smartphone with USB Type C connector up to 10 feet from the transmitter (not included).
  - Supports resolutions to 3840x2160@60Hz.
- Use DP-VGA-xx-MM to connect a VGA display up to 15 feet from the receiver (not included).
  - Supports resolutions to 1920x1200@60Hz.
- Use a 12-strand multimode 50/125-micron OM3 type B MPO female-to-female fiber optic cable to extend the receiver from the transmitter up to 984 feet (300 meters) (not included).

### Regulatory Approval

- CE, FCC, RoHS
- TAA compliant

### Warranty

- Two years