Tel:330-562-7070

XTENDEX® Series

ST-FODP14-MPO

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

User Manual



TRADEMARK

XTENDEX and the NTI logo are registered trademarks of Network Technologies Inc in the U.S. and other countries. All other brand names and trademarks or registered trademarks are the property of their respective owners.

COPYRIGHT

Copyright © 2021-2022 by Network Technologies Inc. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written consent of Network Technologies Inc, 1275 Danner Drive, Aurora, Ohio 44202.

CHANGES

The material in this guide is for information only and is subject to change without notice. Network Technologies Inc reserves the right to make changes in the product design without reservation and without notification to its users.

Introduction

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 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.

- Signal transmission via 12-strand multimode 50-micron OM3 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:
 - o DisplayPort 1.4
 - Multi-Stream Transport (MST)
 - o Up to 36-bit Deep Color
 - LPCM
 - o YCbCr 4:4:4, YCbCr 4:2:2, and RGB
 - o HDR
 - o Bandwidth up to 23.76Gbps
- 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.

Material Supplied with this kit:

ST-FODP14-MPO Local and Remote Unit

- 2- DP14-3-MM 3FT DisplayPort Male-to-Male cable
- 2- In:100 to 240V, 50/60Hz; Out: DC 5V, 3A
- 2- Multi-country line cord

Note: DP14-x-MM cables are available from NTI in 3, 6, 10 and 15 foot lengths.

Features and Functions

Local Unit

1. LED Light (LINK LED)

Fiber link indicator. LED is solid BLUE when Source unit is linked to a Receiver.

2. Fiber Link Port

Simplex MPO optical transceiver port. Extension link to Simplex MPO fiber optic cable.

3. LED Light (Power LED)

5V Power indicator. LED is solid BLUE when DC is supplied to the Transmitter.

4. Power Jack

5VDC 3A Power supply connects here.

5. LED Light (Display/Monitor LED)

Display/Monitor connection indicator. LED is solid BLUE when display is connected to the Receiver.

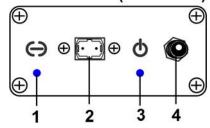
6. LED Light (Source LED)

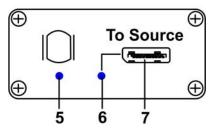
DisplayPort source connection indicator. LED is solid BLUE when DisplayPort source is connected.

7. DP Source Port

DisplayPort cable connects between here and the host computer with DisplayPort output port.

ST-FODP14-MPO Transmitter (Local Unit)





Remote Unit

1. LED Light (LINK LED)

Fiber link indicator. LED is solid BLUE when Receiver unit is linked to a Transmitter.

2. Fiber Link Port

Simplex MPO optical transceiver port. Extension link to Simplex MPO multi-mode fiber optic cable.

3. LED Light (Power LED)

5V Power indicator. LED is solid BLUE when DC is supplied to the Receiver.

4. Power Jack

5VDC 3A Power supply connects here.

5. LED Light (Computer LED)

Computer connection indicator. LED is solid BLUE when computer(source) is connected to the Transmitter.

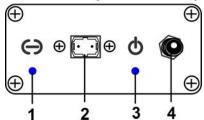
6. LED Light (Sink LED)

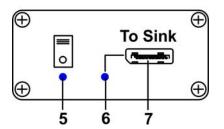
DisplayPort sink connection indicator. LED is solid BLUE when DisplayPort monitor (sink) is connected.

7. DP Sink Port

DisplayPort cable connects between this port and the monitor with DisplayPort input port.

ST-FODP14-MPO Receiver (Remote Unit)





Installation

This extender system is composed of two individual units, the Transmitter and the Receiver, interconnected by fiber optic cable. MPO OM3 multimode fiber cabling is required for extension up to 300m.

Note: The maximum possible extension distance depends on your host-side DisplayPort output.

Step 1. Connecting the Transmitter (Local Unit) to the Receiver (Remote Unit)

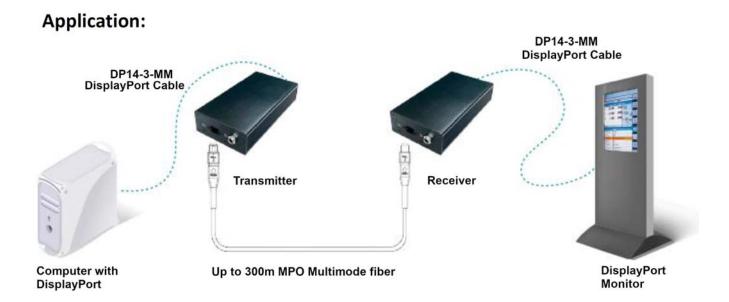
Connect the Transmitter and the Receiver using a MPO OM3 multimode fiber optic cable.

Step 2. Installing the Receiver

- 1. Connect the supplied DP14-3-MM DisplayPort cable between the Receiver and your DisplayPort monitor input.
- 2. Connect the supplied power adapter to the Reciever.

Step 3. Installing the Transmitter

- 1. Place the Transmitter near the computer.
- 2. Connect another supplied DP14-3-MM DisplayPort cable between your host computer and the Transmitter.
- 3. Connect the supplied power adapter to the Transmitter.



Specifications

Futuraina Danas (Daint to maint)	He to 000 a com MDO OMO Moltino de Eilean	
Extension Range (Point-to-point)	Up to 300m over MPO OM3 Multimode Fiber	
Supported Video Resolutions	o 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 4K YUV 4:2:2 resolutions (3840x2160 @120Hz)	
	 Ultra-HD 4Kx2K YUV 4:4:4 resolutions (3840x2160 @60Hz) 	
	o HDTV resolutions to 1080p @144Hz.	
EDID	Pass through	
DPCP	Supported	
HDR	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 and Remote)	 Input: 100 to 240 VAC at 50 or 60Hz via AC adapter. 	
	Output: 5VDC, 3A	
Dimensions (Local and Remote)	2.95x5.63x1.15 in. (75x143x29 mm).	
WxDxH	05 500 B H0	
Approvals	CE, FCC, RoHS	

	Transmitter (Local Unit)	Receiver(Remote Unit)
Video Connector	DisplayPort Female	DisplayPort Female
Fiber Connector	MPO x1	MPO x1
Max. data rate	23.76Gbps	23.76Gbps
Power Consumption	5V/620mA	5V/600mA
Net Weight	274.88g	275.24g