



DOF-T2.0

4K60 DisplayPort and USB 2.0 Fiber Extender System

USER MANUAL



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For technical support, please contact us at support@purelinkav.com.



Thank You for Purchasing This Product

For optimal performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Surge Protection Device Recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. The use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

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Introduction

The **DOF T2.0 Tx/Rx** is TAA compliant, offering a powerful solution for long-distance distribution of DisplayPort 4K/60 video, audio, and control signals over fiber. Ultra HD/4K, HDMI 2.0 (18G), embedded audio, RS-232, and bi-directional IR are all supported over distances up to 3,300 ft. using PureLink's TOTALWIRE LC-terminated fiber optic cables. The pure fiber connection provides protection from electromagnetic interference (EMI), delivering lossless transport for optimal signal quality.

Product Features

- TAA Compliant
- Supports resolutions up to 4K@60Hz 4:4:4, HDR
- Supports distances up to 1.24 miles (2000 m.) over single-mode fiber
- Real-Time Auto-EDID Management
- 18Gbps bandwidth support
- Supports LPCM 7.1 audio, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio, DTS:X formats
- Bi-directional IR & RS-232 control
- Supports USB keyboard mouse

Package Contents

- 1 x DOF-T2.0 Transmitter
- 1 x DOF-T2.0 Receiver
- 2 x 10G SFP+ 1.24 miles (2000 m.) single-mode optical transceiver, installed in Transmitter and Receiver
- 2 x DC 5V 2Amp power adapter
- 1 x IR Emitter cable
- 1 x IR Receiver cable

Specifications

Connector Type/s (Tx)	Inputs: (1) DisplayPort Type A female Outputs: (1) SFP 10G+ Fiber module Control: (1) DB9 female [RS-232], (2) 3.5mm jack [IR Input/Output]
Connector Type/s (Rx)	Inputs: (1) SFP 10G+ Fiber module Outputs: (1) DisplayPort Type A female Control: (1) DB9 male [RS-232], (2) 3.5mm jack [IR Input/Output]
Resolutions	4K@60Hz 4:4:4 18Gbps (6Gbps per color) 1080p@60Hz 16bit, 3D, HDR, Dolby Vision
Compliance	DisplayPort 1.2
Audio Formats	LPCM 7.1 @192KHz, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio, DTS:X
Transmission Distance	up to 1.24 miles (2000 m.) over single-mode fiber
RS-232 Data Rate	115200 bps / Full Duplex
Power Consumption	Max 5 W
Power Supply	DC 5V 2A
Temperature	Operation: 14~113 F (-10~45 C) Storage: -22~158 C (-30~70 C)
Relative Humidity	Up to 95%
Product Dimensions	4.31"x4.51"x1.18" (109.6 x 114.5 x 30mm)
Product Weight	0.6 lb. (270g)

Operation

Installation

Please note: the working distance is subject to the type of Fiber Optic cable used and the type of transceiver used. The product comes with 10G SFP+ 2LC Single Mode Fiber modules which can provide up to 2000 meters of extension when used with quality single mode fiber cabling.

Make sure to use crossover style 2LC <> 2LC fiber cable.

DOF-T2.0 Transmitter Panel View



DOF-T2.0 Receiver Panel View



LED Indicators

- When the Green LED is on = unit is getting power
- When the Blue LED is on = Fiber link between transmitter and receiver is connected

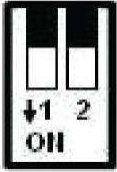
DisplayPort

Connecting a DisplayPort cable with a valid signal at the input of the Transmitter will automatically establish the connection through to the Receiver.

Other signal extensions

You can choose between IR, RS232, or USB as an additional signal extension in parallel with the DisplayPort extension. Review the Dip Switch Settings below for the relative dip switch values.

Dip Switch Settings



Switch	Function					
	SW 1	ON	IR Extender Function	OFF	RS232 Extender Function	ON
SW 2	OFF	ON		ON		

SWITCH position 1 and 2 must be positioned as above instructed above:

IR: SW1 ON (down position) + SW2 OFF (up position)

RS232: SW1 OFF (up position) + SW2 ON (down position)

USB: SW1 ON (down position) + SW2 ON (down position)

RS232

DB9 (F)

RS232	
Pin	Define
Pin 2	TX
Pin 3	RX
Pin 5	GND

DB9 (M)

RS232	
Pin	Define
Pin 2	RX
Pin 3	TX
Pin 5	GND

Warranty

PureLink Three (3) Year Limited Warranty for HDTools™ Branded Products Only

Dtrovision, LLC. (hereinafter "PureLink") warrants its HDTools™ and PureStream™ branded products (hereinafter "Product") purchased directly from PureLink or Dealer shall be free from defects in workmanship and materials, under normal use and service, for a period of three (3) years on parts and three (3) years on labor. Any repaired or replaced equipment related to Product shall be covered only under the remaining portion of the warranty. This warranty has no relationship to and exists independently of any warranty offered by the Dealer. This warranty is a limited warranty and gives you specific legal rights. You may also have other rights which vary from state to state.

TERMS & CONDITIONS

PureLink shall repair or replace the Product if it develops a material fault during the period of warranty, on condition that i) the Product has only been subject to normal use in a domestic or commercial environment in a manner consistent with its specification and functionality, ii) the Product has been cared for reasonably and only subjected to reasonable wear and tear, iii) the defect has not been caused by willful or negligent abuse or neglect, or any accident or improper installation procedure, iv) the serial number of the Product has not been altered or removed.

This warranty only applies to the original purchaser and shall be the exclusive remedy to the original purchaser. PureLink shall not be liable for any damage whatsoever caused by the Product or the failure of Product to perform, including incidental or consequential damages. PureLink shall not be liable for any claim made by a third party or made by the purchaser for a third party.

Except as expressly set forth in this warranty, PureLink makes no other warranties, expressed or implied, including any implied warranties of merchantability and fitness for a particular purpose. PureLink expressly disclaims all warranties not satisfied in this limited warranty. Any implied warranties that may be imposed by law are limited to the terms of this limited warranty. This warranty statement supersedes all previous warranties.

WARRANTY RETURNS/REPAIRS/EXCHANGES

No merchandise may be returned without prior authorization from PureLink, and a Return Materials Authorization (RMA) number. Failure to comply with these conditions will result in rejection of the returned merchandise.

Any warranty service on Products must be arranged through the Dealer. Authorized returns must be shipped freight prepaid and fully insured to PureLink, Ramsey, NJ USA, with the RMA number clearly marked on the outside of all shipping boxes and containers. PureLink reserves the right at its sole discretion to refuse any shipments arriving freight collect or without an RMA number. Any authorized returned merchandise must be accompanied by a note describing the reason for return, along with contact information including name, phone number, return mailing and shipping addresses, e-mail address, and RMA number.

On any products returned and accepted with an RMA number, return freight charges following repair of items under warranty shall be paid by PureLink, shipping by the standard ground carrier of its choice.

ADVANCE WARRANTY REPLACEMENTS

PureLink's advance replacement service offers a Replacement Unit upon request - free of charge for eligible products purchased less than one (1) year of the warranty claim. Products purchased more than one (1) year prior to the warranty claim do not qualify for advanced replacement services.

Advance replacement requests must be validated by a member of PureLink's Technical Support Team. Replacement units may be new or refurbished and are subject to availability. PureLink is responsible for shipping the Replacement Unit to your designated location by standard ground service. All other shipping methods will be the responsibility of the Dealer.

Original Unit Return – the Original Unit must be returned within thirty (30) calendar days of the return authorization date. Failure to return the Original Unit within this period will be subject to a minimum 15% re-stocking fee. The dealer is solely responsible for the shipping of the Original Unit to PureLink.

TO MAKE A WARRANTY CLAIM

To make a warranty claim, promptly notify PureLink within the warranty periods described above by calling PureLink's Technical Support Department at 1-201-488-3232. PureLink, in its sole discretion, will determine what action, if any, is required under this warranty.

Most problems can be corrected over the phone through close cooperation between Customer and a PureLink technician. To better enable PureLink to address a warranty claim, please have the Product's serial and model numbers. If PureLink, in its sole discretion, determines that an on-site visit or other remedial action is necessary, PureLink may send a representative to Customer's site.

Customer Service

Technical support inquiries can be submitted electronically through the PureLink website at www.purelinkav.com. For immediate assistance please contact PureLink's Customer Care Team at

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