Package Contents

Please make sure all of the following items are included in the package:
1) ODA II-Tx / ODA II-Rx
2) DC 12V Power Supply Unit with a power cord
3) User Manual
General Specification

Purelink’s new ODA II Tx / Rx is a standalone fiber optic signal extension system capable of transmitting DVI/HDMI, 3.5mm Stereo Audio and RS-232 signal over two strand fiber optic cable. In addition, the fiber type can be either single mode or multimode. There is distinctive difference in distance depends on the type of fiber cable being used at the time. For instance, multimode can be extended up to 500m at WUXGA/1080p@60Hz, but the distance becomes greater when using a single mode fiber (can be extended up to 2000m at WUXGA / 1080p@60Hz)

By having a flexible fiber solution, ODA II provides a convenient and affordable solution for transmitting highest quality video and audio signal in various applications.

<table>
<thead>
<tr>
<th>Model</th>
<th>ODA II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Signal</td>
<td>DVI/HDMI</td>
</tr>
<tr>
<td></td>
<td>Stereo Audio (3.5mm mini jack)</td>
</tr>
<tr>
<td></td>
<td>RS-232</td>
</tr>
<tr>
<td>Output Signal</td>
<td>DVI/HDMI</td>
</tr>
<tr>
<td></td>
<td>Stereo Audio (3.5mm mini jack)</td>
</tr>
<tr>
<td></td>
<td>RS-232</td>
</tr>
<tr>
<td>Supporting Display Resolutions</td>
<td>PC Mode : VGA ~ WUXGA</td>
</tr>
<tr>
<td></td>
<td>DTV Mode: 480 ~ 1920*1080P</td>
</tr>
<tr>
<td>Max. Distance</td>
<td>1920 x 1200 @60Hz or 1080p up to 500m(1,640 ft / Multimode)/ 2000m ( 6,561 ft @ Single mode)</td>
</tr>
<tr>
<td>Connector Type</td>
<td>DC Power Jack</td>
</tr>
<tr>
<td></td>
<td>DVI 29 Pin Female</td>
</tr>
<tr>
<td></td>
<td>LC Fiber Connector 2 core</td>
</tr>
<tr>
<td></td>
<td>3.5mm STEREO Jack</td>
</tr>
<tr>
<td></td>
<td>RS-232C : 3 Port Phoenix connector</td>
</tr>
<tr>
<td>Conformations</td>
<td>DDWG DVI1.0</td>
</tr>
<tr>
<td></td>
<td>With HDCP</td>
</tr>
<tr>
<td>Power Rating</td>
<td>DC 12V, 4.1A, 8 Watts(Max 13W)</td>
</tr>
<tr>
<td>Dimension</td>
<td>4.3'(W) x 3.1'(D) x 1.6' (H) (Inch)</td>
</tr>
<tr>
<td>-------------------</td>
<td>-------------------------------------</td>
</tr>
<tr>
<td>Weight</td>
<td>TX, RX 0.9 lbs (per unit)</td>
</tr>
</tbody>
</table>
Operation and Reliability Specification

1. Operating Environment
   Temperature : 50F ~ 104F (10℃ ~ 40℃)
   Humidity : 10% ~ 80%
   Altitude : 3,000m Max.

2. Transit Environment
   Temperature : -13F ~ 140F (-25℃ ~ 60℃)
   Humidity : 5% ~ 95%
   Altitude : 15,000m Max.

3. Storage Environment
   Temperature : -4F ~ -49F (-20℃ ~ 45℃)
   Humidity : 5% ~ 95%
   Altitude : 3,000m Max.

4. Reliability
   MTBF: 90% at over 50,000 hours aging test
   • In compliance with LCD Monitor reliability test standard
Main Features

1. High Quality Picture - No Signal Loss and Digital Noise Free
ODA II Tx / Rx is designed to deliver the highest quality picture preserving the native resolutions of the digital/analog video sources, or analog stereo audio, or RS-232 communication without any signal loss. At the same time, the digital noises that may affect the picture quality will be eliminated. Due to the nature of the digital signals and passing through multiple stages of connection when using fiber optic extender, it is important to eliminate the digital noises and boost the signal strength to preserve/enhance the video signal quality. ODA II Tx / Rx equipped with Noise cancellation and error correction logic that enhances HDMI video and audio signals over long distance.

2. Signal Amplification for signal reliability and long distance signal transmission
12V power adapter supplies adequate power to amplify the video signal from the video source and it also has a built-in signal repeater to support long distance.

3. Compact and durable design
ODA II Tx / Rx come in compact and robust design.

4. Support Both Single mode and Multimode Fiber
Multimode can be extended up to 500m at WUXGA/ 1080p@60Hz, but the distance becomes greater when using a single mode fiber (can be extended up to 2000m at WUXGA / 1080p@60Hz)

5. AUTO EDID management
The definition of AUTO EDID management is a way of saving EDID of a monitor into EEPROM in the transmitter module before connecting to any video source. ODA II transmitter has 14 different pre-programmed EDID data that can be conveniently selected by end-user, if an external EDID doesn’t need to be saved. Saving/Emulating display’s EDID in the transmitter module enhances reliability and compatibility with various displays.

6. HDCP (High-bandwidth Digital Content Protection) Compliant
Our ODA II Tx / Rx is fully HDCP compliant. Many video sources such as DVD players and Satellite/Cable Receivers are HDCP encrypted. For these video sources to be displayed correctly, HDCP compliant devices (e.g., TV, DVI Switch, distribution amplifier) are required.
Installation and Connection Instructions

Installation Instruction

1. Turn off the video source and monitor before connecting any cable.
3. Connect 12V DC power adapter to both transmitter and receiver module.
4. Turn on the monitor
5. Turn on the video source

How to connect fiber cable between ODA II Tx and ODA II Rx
*Please refer to the connection diagram below*
Tx optical port# 1 ----------- > Rx optical port# 1
Tx optical port# 2 ----------- > Rx optical port# 2

RS-232 Connection
Set up connection in the order illustrated below before use.
Product Exterior

Product Dimension (W * D *H): 4.3" x 3.1" x 1.6" (inch)
Weight: 0.9 lbs
ODA II Tx: Transmitter Module

ODA II Rx: Receiver Module
*Front Panel
- Power LED
- SIGNAL : Status LED
- SELECT : EDID Rotary Switch (Tx only)
- SAVE : EDID Save Button (Tx only)
- FIRMWARE : Software upgrade

*Rear Panel
- DVI/HDMI IN, OUT : DVI-D/HDMI port
- Audio IN, OUT : 3.5 mm Stereo Audio port
- RS232C : RS-232C (Phoenix connector)
- DC 12V : Power Socket
How to use the ODA II extender

Internal EDID DATA
Select EDID data of your choice from the list below by adjusting MODE switch.
* MODE List
0- External EDID
1-800x600 60Hz, 2-1024x768 60Hz, 3-1280x768 60Hz, 4-1280x1024 60Hz
5-1360x768 60Hz, 6-1366x768 60Hz, 7-1400x1050 60Hz, 8-1600x900 60Hz
9-1600x1200 60Hz, A-1680x1050 60Hz, B-1920x1200 60Hz, C-HD1080i 60Hz
D-HD1080p (2CH), E-HD1080p(Multi)

Saving external EDID DATA:
Connect display (monitor or display) to the ODA II transmitter. Set your rotatory switch to "0", then press the EDID S/W button. Transmitter will read and save the EDID data on the internal EEPRom.
## Technical Specification

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Transfer Speed</td>
<td>Up to 2.25 Gbps (Single Link)</td>
</tr>
<tr>
<td>Frequency Range</td>
<td>25 ~ 165 MHz</td>
</tr>
<tr>
<td>Supporting Display Resolutions</td>
<td>Up to WUXGA (1920x1200)@60Hz / 1080p</td>
</tr>
<tr>
<td>I/O Signal Standard</td>
<td>Digital RGB, VGA, Stereo Audio (3.5mm)</td>
</tr>
<tr>
<td>RS-232 (Max Baud Rate)</td>
<td>115200 bps</td>
</tr>
<tr>
<td>Max Distance</td>
<td>1,000m (3,300ft) at 1920x1200@60Hz / 1080p</td>
</tr>
<tr>
<td></td>
<td>1,500m (5,000ft) at 1600x1200@60Hz / 1080i</td>
</tr>
<tr>
<td>Optical Source</td>
<td>850 nm Vcsel</td>
</tr>
<tr>
<td>Optical Cable Specification</td>
<td>Single / Multimode 50/125 or, 62.5/125</td>
</tr>
<tr>
<td>Input Ports</td>
<td>DVI-D Female 29P / LC Receptacles x 2 cores / 3.5mm mini jack / RS-232</td>
</tr>
<tr>
<td>Output Ports</td>
<td>DVI-D Female 29P / LC Receptacles x 2 cores / 3.5mm mini jack / RS-232</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>8 Watts(Max 13W)</td>
</tr>
<tr>
<td>Power Rating</td>
<td>12V DC / 3A</td>
</tr>
</tbody>
</table>
Warranty

PURELINK STANDARD LIMITED WARRANTY For Products purchased directly from PureLink or Dealer, PureLink warrants Products shall be free from defects in workmanship and materials, under normal use and service, for a period of five (5) years on parts and three (3) years on labor for PureMedia and Media Axis Products, (39) months on parts and labor on all PureView products, and three (3) years on parts and labor for all other Products from date of purchase. 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 Dealer.

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 damages whatsoever caused by 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.
FCC/CE Statement

This device complies with part 15 of FCC Rules and EN 55022/55024/61000-3 for CE certification. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must not accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 and 2 of FCC Rules and EN 55022/55024/61000-3 for CE certification. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction guide, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult a service representative for help.

Properly shielded and grounded cables and connectors must be used in order to comply with FCC/CE emission limits. Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

UL Statement

This device has completed a UL Commercial Inspection and Testing Services for the multimode HDMI cable complied with VW-1 under UL 758. It is validated by the UL file number SV2038 and project number 04CA05353.