

PureLink

HDX II Owner's Manual

Modular Fiber Optic HDMI Extender

PureLink™

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Package Contents

Please make sure all of the following items are included in the package:

- 1) HDX II Transmitter Module
- 2) HDX II Receiver Module
- 3) 6ft HDMI Cable (x2)
- 4) DC 12V Power Supply Unit with a power cord

General Specification

HDX II is a HDMI extension system over pure fiber optic cable for long distance up to 5,000ft.

Compact & durable design and low power consumption makes it an ideal solution for connection for high definition video/audio signal of digital displays such as LCD/Plasma displays and projectors.

HDX II's unique circuitry and optic conversion design eliminates the need of a copper connection (Cat 5) between the transmitter and receiver. This pure fiber optic connection enables electrical noise free and EMI free that is ideal for long distance extension of high definition HDMI signals with embedded audio.

HDX II's intuitive LCD panel on both transmitter and receiver show the status of the video and audio signals including the current signal image format and audio format. This information provides helpful diagnostic information.

Model	HDX II
Input Signal	HDMI
Output Signal	HDMI
Supporting Display Resolutions	VGA ~WUXGA(up to 1920 x 1200 @ 60Hz) , 480i ~ 1080p
Max. Distance	1920x1200 @ 60Hz or at 1080p: 1,000M(3,300ft) 1280x1024 @ 60Hz or at 1080i: 1,530M(5,000ft)
Connector Type	DC Power Jack HDMI 19 Pin Female LC Receptacles with 4 cores
Conformations	HDMI version 1.3 With HDCP
Power Rating	DC +12V , 10W Max
Dimension	53.6x46.5x9.86(inches) 136x118x25(mm)
Weight	Transmitter: 1.1Lbs(0.48Kg) / Receiver: 1.1Lbs(0.48Kg)

Operation and Reliability Specification

1. Operating Environment

Temperature : 50F ~ 104F (10°C ~ 40°C)
Humidity : 10% ~ 80%
Altitude : 3,000m Max.

2. Transit Environment

Temperature : -13F ~ 140F (-25°C ~ 60°C)
Humidity : 5% ~ 95%
Altitude : 15,000m Max.

3. Storage Environment

Temperature : -4F ~ -49F (-20°C ~ 45°C)
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

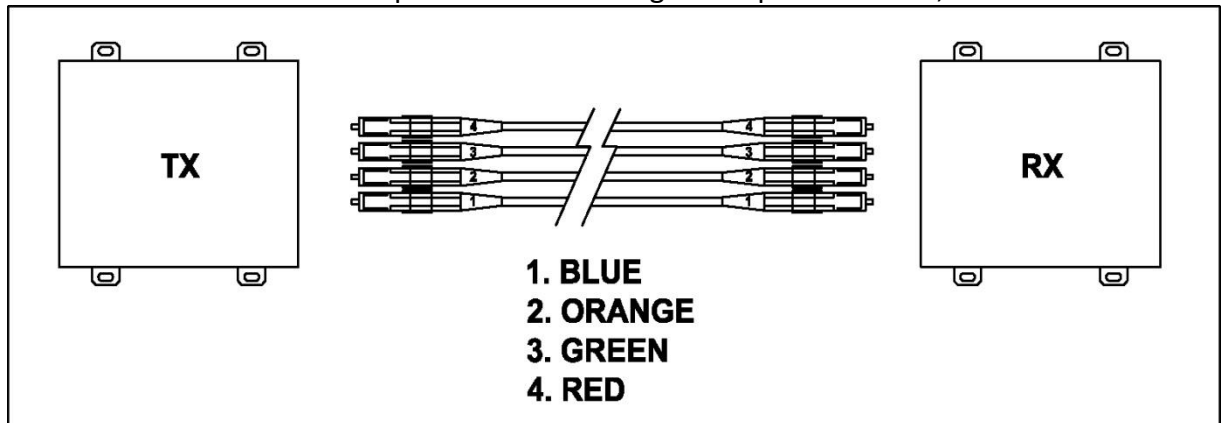
Main Features

1. Zero loss & Zero noise delivery of digital high definition video and audio signal using optical conversion technology, HDX II delivers HD signals over fiber optic cables without loss or digital interference maintaining the clarity and colors. Noise cancellation and error correction logic enhances HDMI video and audio signals over long distance.
2. Built-in signal repeater to support longer distance between the source and the HDX II transmitter & HDX II receiver and the display. This Signal Repeater logic supports up to 50ft copper based HDMI cables.
3. Compact and Robust Module Design
4. Long Distance (Up to 5000ft at 1080i or lower signal) over cost effective multimode fiber optic cables.
5. Full EDID Management
Saving/Emulating display's EDID in the transmitter module enhances reliability and compatibility with various displays.
6. HDCP (High-bandwidth Digital Content Protection) Support.
7. HDMI version 1.3 Support.
8. Signal Status LCD panel on both transmitter and receiver modules video and audio signal information is displayed on the LCD panels to help understand the signal even before the display is connected. Display Resolution, refresh rates and audio signal status are intuitively displayed on the modules.

Installation and Connection Instructions

Installation and Connection Instructions

1. Turn off both the video source and the display before connecting any cables.
2. Connect HDMI cable between the source and HDX II transmitter AND between the HDX II receiver and the display.
3. Connect LC terminated fiber optic cables according to the picture below;



4. Connect the power supply unit to both HDX II transmitter and receiver units.
5. Turn on Display
6. Turn on Video Source

EDID Management

For reliability and correct signal transmission of the video source, EDID emulation is recommended. Please follow the steps below;

1. Connect the HDX II transmitter's HDMI input port to the Display's HDMI input port
2. Press and hold EDID switch for about 2 seconds until the Display's EDID is successfully saved on to the transmitter. 'EDID PASS' message on the LCD panel indicates successful EDID save. 'EDID ERROR' message indicates failed EDID save. Please repeat the step #1 and #2.
** Factory Default EDID is based on 1080p.



<EDID Save Successful>



<EDID Save Failed>

Signal Status LCD Display

The LCD panel on HDX II transmitter and receiver shows the current signal status.

Example Status:

1920*1200@ 60Hz
<Audio OUT>

1600*1200@ 60Hz
<Audio OUT>

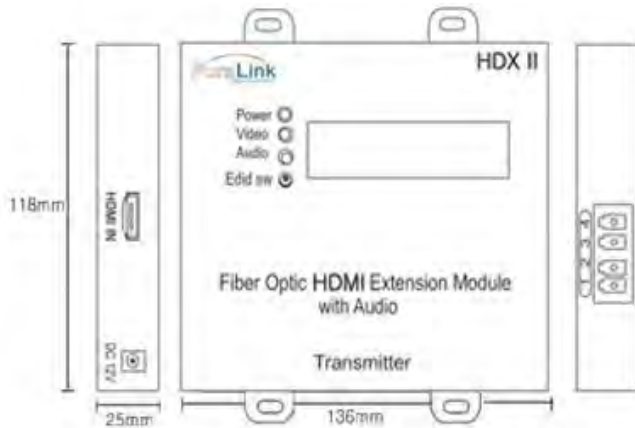
1280*1024@ 60Hz
<Audio OUT>

1024*768@ 60Hz
<Audio OUT>

HDX II Transmitter and Receiver Specification

Module Dimensions: 53.6x46.5x9.86 (inches) 136x118x25(mm)

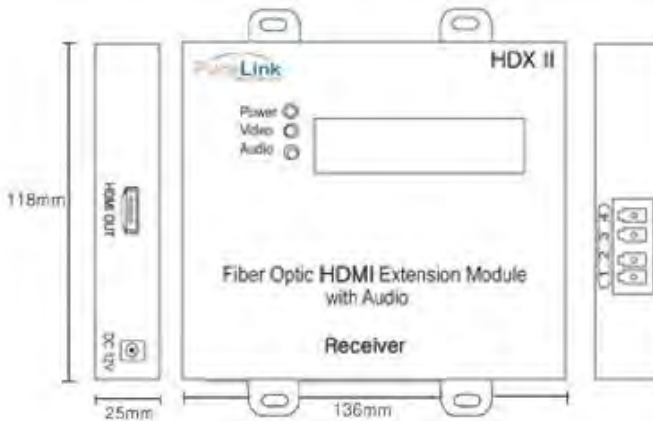
Transmitter Module



Connection Ports;

HDMI IN: HDMI Input
1234 optical receptacles
12V DC Power Supply Unit Input

Receiver Module



Connection Ports;

HDMI OUT: HDMI Output
1234 optical receptacles
12V DC Power Supply Unit Input

LCD Panel Display;

LCD Display: 16x2 digital LCD
Power LED: Power On/Off Indication
Video LED: HDMI Video Signal Status
Audio LED: Audio Signal Status
EDID s/w: EDID Save Function button

Technical Specification

Data Transfer Speed:	Up to 10 Gbps
Frequency Range:	25 ~ 165 MHz
Supporting Display Resolutions:	1080p / Up to WUXGA (1920X1200)@60Hz
I/O Signal Standard:	HDMI 1.3, TMDS
Max Distance:	1,000m (3,300ft) at 1080p / 1920x1200@60Hz 1,500m (5,000ft) at 1080i / 1280x1024@60Hz
Optical Source:	850 nm Vcsel
Optical Cable Specification:	Multimode 50/125 or, 62.5/125
Input Ports:	HDMI Female 19P / LC Receptacles x 4 cores
Output Ports:	HDMI Female 19P / LC Receptacles x 4 cores
Power Consumption:	Transmitter: 2.65 Watts (Max) / Receiver: 3.48 Watts (Max)
Power Rating:	12V DC / 3A

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.