



RF4-U  
**Rack Mountable 1RU Frame for RF UHD Extenders**  
USER MANUAL



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**RF4-U USER MANUAL**  
VERSION 1.2

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## Safety Precautions

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

1. This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.
2. Always use the correct external power supply (indicated on the product label) when operating this unit.
3. Power down unit and unplug from wall outlet before installing or removing transmitter/receiver modules
4. Keep away from wet, magnetic, and flammable surfaces or substances. Unplug the unit from wall outlets before cleaning. Do not use liquid cleaners or aerosol sprays. Wipe with a damp cloth.
5. Air vents should be kept clean and unobstructed at all times.
6. Any external impact may cause damage to the operation of this unit.

## Package Contents

- ✓ **RF4-U Frame**
- ✓ **Transmitter/Receiver modules (sold separately)**
- ✓ **DC 12V Power Supply Unit with a power cord**
- ✓ **Rack ears**

## General Specifications & Features

The **RF4-U Rack Mountable Extension Center** is a complete extension solution equipped with a series of smaller transmitters and receivers for PureMedia™ designed for slot-loading into a main chassis. The **RF4-U** houses up to four (4) Ultra HD/4K extender modules, available in HDMI, HDBaseT, and Fiber inputs and outputs, all in a 1-RU space with a single power source.

### Technical Specifications

<b>Input Signal Type/s</b>	HDMI, HDBaseT, and Fiber available
<b>Output Signal Type/s</b>	HDMI, HDBaseT, and Fiber available
<b>Data Transmission Speed</b>	10.2 Gbps
<b>Supported Resolutions</b>	PC: VGA ~ WUXGA (up to 1920 x 1200 @60Hz) HDTV: 480i ~ 1080p, Up to Ultra HD 4K 4096 x 2160 @ 24/25/30Hz (RGB/YCbCr 4:4:4 8 bits, YCbCr 4:2:2 8/10/12 bits) 4096 x 2160 @50/60Hz (YCbCr 4:2:0 8 bits)
<b>Compliance</b>	HDMI 1.4, HDCP 2.0
<b>Operating Temperature</b>	50F ~ 104F (10°C~ 40°C)
<b>Operating Humidity</b>	10% ~ 80%
<b>MTBF</b>	90% at over 50,000 hours aging test
<b>Power Supply</b>	Main Power: DC +12V, 6.6A Redundant Power: DC +12V, 10A
<b>Power Consumption</b>	8W (max)
<b>Product Dimensions</b>	17.3 x 6.7 x 1.7 in.
<b>Product Weight</b>	6.2 lbs (2.8 Kg)

## Front Panel



### ST1 & ST2 LEDs

- **ST1: “Signal”**  
This LED will light up if there is signal passing through.
- **ST2: “Connection Status”**  
This LED will light up if RF4 module such as PM-FR101-U-RF is properly connected to RF4.

### POWER

- **Power 1:** 12V DC power supply indicator
- **Power 2:** 12V DC (redundant) power supply indicator

## Available RF Extender Modules & Accessories

- ① **PM-CT101-U-RF** – HDMI to HDBaseT Transmitter for RF4-U Extension Center – Ultra HD
- ② **PM-CT102-U-RF** – HDMI/VGA to HDBaseT Transmitter for RF4-U Extension Center – Ultra HD
- ③ **PM-FT101-U-RF** – HDMI to 1 LC Fiber Transmitter for RF4-U Extension Center – Ultra HD
- ④ **PM-CR101-U-RF** – HDBaseT to HDMI Receiver for RF4-U Extension Center – Ultra HD
- ⑤ **PM-FR101-U-RF** – 1 LC Fiber to HDMI Receiver for RF4-U Extension Center - Ultra HD
- ⑥ **PM-FT102-U-RF** – HDMI/VGA to 1 LC Fiber Transmitter for RF4-U Extension Center – Ultra HD
- ⑦ **PM-CT104-U-RF** – HDMI to HDBaseT) Transmitter w/PoE for RF4-U Extension Center – Ultra HD
- ⑧ **PM-CR104-U-RF** – HDBaseT to HDMI Receiver w/PoE for RF4-U Extension Center – Ultra HD
- ⑨ **RFCC** – Rack Frame Cable Cover for RF4-U Extension Center

1.



4.



2.



5.



3.



6.



9.



## Warranty & Customer Service

### PureLink™ Five Year Limited Warranty

For PureMedia™ Branded Products Only

Dtrovision, LLC. (hereinafter "PureLink") warrants its PureMedia™ 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 five (5) 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 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 specifications 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.

#### 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 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 and with a 25% exchange fee for products purchased more than one (1) year prior to the warranty claim. Products no longer covered under warranty do not qualify for Advance 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 is 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 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. 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. 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

## **CUSTOMER SERVICE**

Technical support inquiries can be submitted electronically through the PureLink website at [www.purelinkav.com](http://www.purelinkav.com). For immediate assistance, please contact PureLink's Customer Care Team at **+1 (201) 401-9013** or [support@purelinkav.com](mailto:support@purelinkav.com).