4-Port GPON Optical Line Terminal with SFP+
Model: UF-OLT-4
Introduction

Thank you for purchasing the Ubiquiti Networks® U®Fiber OLT-4. This Quick Start Guide is designed to guide you through installation and also includes warranty terms.

Package Contents

- U Fiber OLT-4
- Mounting Brackets (Qty. 2)
- Bracket Screws (Qty. 8)
- Mounting Screws (Qty. 4)
- Cage Nuts (Qty. 4)
- SC/UPC GPON SFP Transceiver (UF-GP-B+)
- Power Cord
- Rubber Feet (Qty. 4)
- Quick Start Guide

TERMS OF USE: All Ethernet cabling runs must use CAT5 (or above). It is the professional installer’s responsibility to follow local country regulations, including operation within legal frequency channels, output power, indoor cabling requirements, and Dynamic Frequency Selection (DFS) requirements.
System Requirements

- Linux, Mac OS X, or Microsoft Windows 7/8/10
- Web Browser: Google Chrome (Other browsers may have limited functionality)

Installation Requirements

- Phillips screwdriver (for rack- or wall-mounting)
- Standard-sized, 19” wide rack with a minimum of 1U height available (for rack-mounting)
- Compatible PON SFP and SFP+ transceivers with appropriate fiber optic cabling. For information about compatible fiber transceivers, visit: ubnt.link/UFiber-OLT-Modules
Hardware Overview

Front Panel Ports

<table>
<thead>
<tr>
<th>Interface</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPON Ports (PON 1-PON 4)</td>
<td>Gigabit Passive Optical Network ports support up to 128 clients on each port.</td>
</tr>
<tr>
<td>SFP+ 1 Port</td>
<td>Hot-swappable SFP+ port supports 1G or 10G connections.</td>
</tr>
<tr>
<td>MGMT Port</td>
<td>10/100/1000 Ethernet port used for out-of-band management.</td>
</tr>
</tbody>
</table>
| Console Port               | RJ45 serial console port for Command Line Interface (CLI) management. Use an RJ45-to-DB9, serial console cable, also known as a rollover cable, to connect the Console port to your computer. (If your computer does not have a DB9 port, then you will also need a DB9 adapter.) Then configure the following settings as needed:
  • Baud rate  57600
  • Data bits  8
  • Parity  NONE
  • Stop bits  1
  • Flow control  NONE |
<table>
<thead>
<tr>
<th>Interface</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB Port</td>
<td>Reserved for future use</td>
</tr>
<tr>
<td>Reset Button</td>
<td>There are two methods to reset the UFiber OLT-4 to factory defaults:</td>
</tr>
<tr>
<td></td>
<td>• <em>Runtime reset (recommended)</em> The UFiber OLT-4 should be running after bootup is complete. Press and hold the <strong>Reset</strong> button for about 10 seconds until the <em>MGMT</em> LED starts flashing and then becomes solidly lit. After a few seconds, the LED will turn off, and the UFiber OLT-4 will automatically reboot.</td>
</tr>
<tr>
<td></td>
<td>• <em>Power-on reset</em> Disconnect the <strong>Power Cord</strong> from the UFiber OLT-4. Press and hold the <strong>Reset</strong> button while connecting the <strong>Power Cord</strong> to the UFiber OLT-4. Keep holding the button until the <em>MGMT</em> LED starts flashing and then stops flashing after a few seconds.</td>
</tr>
</tbody>
</table>

>Note: To press the **Reset** button, insert a straightened paper clip (or similar object) into the hole shown above. Do not use an object that can break and become lodged in the hole.
Front Panel LEDs

<table>
<thead>
<tr>
<th>LED</th>
<th>State</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>System</td>
<td>Blue/Flashing</td>
<td>Initializing/Booting Up</td>
</tr>
<tr>
<td></td>
<td>White</td>
<td>Ready for Use</td>
</tr>
<tr>
<td>PON 1-4</td>
<td>Off</td>
<td>No Link</td>
</tr>
<tr>
<td></td>
<td>White/Flashing</td>
<td>GPON Link/Activity</td>
</tr>
<tr>
<td>SFP+ 1</td>
<td>Off</td>
<td>No Link</td>
</tr>
<tr>
<td></td>
<td>Green/Flashing</td>
<td>1G Link/Activity</td>
</tr>
<tr>
<td></td>
<td>White/Flashing</td>
<td>10G Link/Activity</td>
</tr>
<tr>
<td>MGMT</td>
<td>Off</td>
<td>No Link</td>
</tr>
<tr>
<td></td>
<td>Amber/Flashing</td>
<td>10/100 Link/Activity</td>
</tr>
<tr>
<td></td>
<td>Green/Flashing</td>
<td>1000 Link/Activity</td>
</tr>
</tbody>
</table>
Back Panel

![Diagram of back panel with labels for fans, power port, and optional DC power jack.]

Side Panels

![Diagram of side panels with labels for ventilation holes.]

**WARNING:** FAILURE TO PROVIDE PROPER VENTILATION MAY CAUSE FIRE HAZARD. KEEP AT LEAST 20 MM OF CLEARANCE NEXT TO THE FANS AND VENTILATION HOLES FOR ADEQUATE AIRFLOW.
Hardware Installation

The U Fiber OLT-4 can be placed on a horizontal surface, mounted on a wall, or mounted in a rack.

Mounting

1. Attach the Mounting Brackets to the U Fiber OLT-4 using the eight Bracket Screws.

2. Attach the U Fiber OLT-4 to the rack using the four Mounting Screws. (If the rack has square slots, then use the Cage Nuts with the Mounting Screws.)
3. Connect the *Power Cord* to the *Power Port* on the back.

4. Connect the other end of the *Power Cord* to a power outlet.
Connecting PON

1. Remove the protective plug covering a PON port.
2. Insert the **GPON SFP Transceiver** into the PON port.
3. Connect a fiber optic cable to the **GPON SFP Transceiver**. Then connect the other end of the cable to a Passive Optical Splitter (POS).

4. Repeat steps 1-3 to connect additional PON ports.

**Note:** One GPON SFP transceiver (model UF-GP-B+) is included. Use a compatible PON SFP transceiver with the appropriate fiber optic cabling for each PON port.
Connecting SFP+

1. Remove the protective plug from the SFP+ port.
2. Insert a compatible SFP transceiver into the SFP+ port.
3. Connect the fiber optic cable to the SFP transceiver. Then connect the other end of the cable to an SFP device.
Accessing the Configuration Interface

1. Connect an Ethernet cable from your computer to the MGMT port on the UFiber OLT.

2. Configure the Ethernet adapter on your host system with a static IP address on the 192.168.1.x subnet.

3. Launch your web browser. Type https://192.168.1.1 in the address field. Press enter (PC) or return (Mac).

4. The login screen will appear. Enter ubnt in the Username and Password fields. Read the Ubiquiti License Agreement, and check the box next to I agree to the terms of this License Agreement to accept it. Click Login.

The UFiber Configuration Interface will appear, allowing you to customize your settings as needed.
Installing UNMS™

The Ubiquiti Network Management System (UNMS) is a Linux-based controller software used to centrally manage the UFiber OLT and UFiber Nano G clients.

For the latest UNMS version or controller information, visit: unms.ubnt.com
# Specifications

<table>
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<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td>299.80 x 258.95 x 42.55 mm (11.8 x 10.2 x 1.7”)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td></td>
</tr>
<tr>
<td>Without Mount Brackets</td>
<td>1.93 kg (4.25 lb)</td>
</tr>
<tr>
<td>With Mount Brackets</td>
<td>2.13 kg (4.70 lb)</td>
</tr>
<tr>
<td><strong>Max. Power Consumption</strong></td>
<td>35W (Excluding SFP Transceivers)</td>
</tr>
<tr>
<td><strong>Power Method</strong></td>
<td>110 - 240VAC Modular Port</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td>AC/DC Internal 56W DC</td>
</tr>
<tr>
<td><strong>Supported Voltage Range</strong></td>
<td>100 - 240VAC; 16-25VDC</td>
</tr>
<tr>
<td><strong>Button</strong></td>
<td>Reset</td>
</tr>
<tr>
<td><strong>Processor</strong></td>
<td>MIPS 1004Kc 880 MHz Dual-Core</td>
</tr>
<tr>
<td><strong>System Memory</strong></td>
<td>512MB DDR3, 512 MB NAND</td>
</tr>
<tr>
<td><strong>LEDs</strong></td>
<td></td>
</tr>
<tr>
<td>System</td>
<td>Link/Activity</td>
</tr>
<tr>
<td>PON Data Ports</td>
<td>Link/Activity</td>
</tr>
<tr>
<td>SFP+ Data Port</td>
<td>Link/Activity</td>
</tr>
<tr>
<td>RJ45 (MGMT) Port</td>
<td></td>
</tr>
<tr>
<td><strong>Interfaces</strong></td>
<td></td>
</tr>
<tr>
<td>Data Ports</td>
<td>(4) GPON OLT</td>
</tr>
<tr>
<td>Management Port</td>
<td>(1) 1G/10G SFP+ Ports</td>
</tr>
<tr>
<td>Serial Console Port</td>
<td>(1) RJ45 Ethernet Port</td>
</tr>
<tr>
<td>Rackmount</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-10 to 45° C (14 to 113° F)</td>
</tr>
<tr>
<td><strong>Operating Humidity</strong></td>
<td>10 - 90% Noncondensing</td>
</tr>
<tr>
<td><strong>Certifications</strong></td>
<td>CE, FCC, IC</td>
</tr>
<tr>
<td><strong>GPON SFP OLT Transceiver (UF-GP-B+)</strong></td>
<td>Single Fiber, SM SC/UPC, 20 km, 1490 nm TX/1310 nm RX, ITU-T G984.2 Class B+</td>
</tr>
</tbody>
</table>
Safety Notices

1. Read, follow, and keep these instructions.
2. Heed all warnings.
3. Only use attachments/accessories specified by the manufacturer.

⚠️ WARNING: Do not use this product in location that can be submerged by water.

⚠️ WARNING: Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.

⚠️ WARNING: CLASS 1 LASER PRODUCT - Do not look into the ends of the fiber optic cable or SFP modules while converters are powered.

Electrical Safety Information

1. Compliance is required with respect to voltage, frequency, and current requirements indicated on the manufacturer’s label. Connection to a different power source than those specified may result in improper operation, damage to the equipment or pose a fire hazard if the limitations are not followed.

2. There are no operator serviceable parts inside this equipment. Service should be provided only by a qualified service technician.

3. This equipment is provided with a detachable power cord which has an integral safety ground wire intended for connection to a grounded safety outlet.
   a. Do not substitute the power cord with one that is not the provided approved type. Never use an adapter plug to connect to a 2-wire outlet as this will defeat the continuity of the grounding wire.
   b. The equipment requires the use of the ground wire as a part of the safety certification, modification or misuse can provide a shock hazard that can result in serious injury or death.
   c. Contact a qualified electrician or the manufacturer if there are questions about the installation prior to connecting the equipment.
   d. Protective earthing is provided by Listed AC adapter. Building installation shall provide appropriate short-circuit backup protection.
   e. Protective bonding must be installed in accordance with local national wiring rules and regulations.
Limited Warranty

UBIQUITI NETWORKS, Inc (“UBIQUITI NETWORKS”) warrants that the product(s) furnished hereunder (the “Product(s)”) shall be free from defects in material and workmanship for a period of one (1) year from the date of shipment by UBIQUITI NETWORKS under normal use and operation. UBIQUITI NETWORKS’ sole and exclusive obligation and liability under the foregoing warranty shall be for UBIQUITI NETWORKS, at its discretion, to repair or replace any Product that fails to conform to the above warranty during the above warranty period. The expense of removal and reinstallation of any Product is not included in this warranty. The warranty period of any repaired or replaced Product shall not extend beyond its original term.

Warranty Conditions

The above warranty does not apply if the Product:

(I) has been modified and/or altered, or an addition made thereto, except by Ubiquiti Networks, or Ubiquiti Networks’ authorized representatives, or as approved by Ubiquiti Networks in writing;

(II) has been painted, rebranded or physically modified in any way;

(III) has been damaged due to errors or defects in cabling;

(IV) has been subjected to misuse, abuse, negligence, abnormal physical, electromagnetic or electrical stress, including lightning strikes, or accident;

(V) has been damaged or impaired as a result of using third party firmware;

(VI) has no original Ubiquiti MAC label, or is missing any other original Ubiquiti label(s); or

(VII) has not been received by Ubiquiti within 30 days of issuance of the RMA.

In addition, the above warranty shall apply only if: the product has been properly installed and used at all times in accordance, and in all material respects, with the applicable Product documentation; all Ethernet cabling runs use CAT5 (or above), and for outdoor installations, shielded Ethernet cabling is used, and for indoor installations, indoor cabling requirements are followed.

Returns

No Products will be accepted for replacement or repair without obtaining a Return Materials Authorization (RMA) number from UBIQUITI NETWORKS during the warranty period, and the Products being received at UBIQUITI NETWORKS’ facility freight prepaid in accordance with the RMA process of UBIQUITI NETWORKS. Products returned without an RMA number will not be processed and will be returned freight collect or subject to disposal. Information on the RMA process and obtaining an RMA number can be found at: www.ubnt.com/support/warranty
Disclaimer

EXCEPT FOR ANY EXPRESS WARRANTIES PROVIDED HEREIN, UBIQUITI NETWORKS, ITS AFFILIATES, AND ITS AND THEIR THIRD PARTY DATA, SERVICE, SOFTWARE AND HARDWARE PROVIDERS HEREBY DISCLAIM AND MAKE NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS, IMPLIED OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, REPRESENTATIONS, GUARANTEES, OR WARRANTIES OF MERCHANTABILITY, ACCURACY, QUALITY OF SERVICE OR RESULTS, AVAILABILITY, SATISFACTORY QUALITY, LACK OF VIRUSES, QUIET ENJOYMENT, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT AND ANY WARRANTIES ARISING FROM ANY COURSE OF DEALING, USAGE OR TRADE PRACTICE IN CONNECTION WITH SUCH PRODUCTS AND SERVICES. BUYER ACKNOWLEDGES THAT NEITHER UBIQUITI NETWORKS NOR ITS THIRD PARTY PROVIDERS CONTROL BUYER’S EQUIPMENT OR THE TRANSFER OF DATA OVER COMMUNICATIONS FACILITIES, INCLUDING THE INTERNET, AND THAT THE PRODUCTS AND SERVICES MAY BE SUBJECT TO LIMITATIONS, INTERRUPTIONS, DELAYS, CANCELLATIONS AND OTHER PROBLEMS INHERENT IN THE USE OF COMMUNICATIONS FACILITIES. UBIQUITI NETWORKS, ITS AFFILIATES AND ITS AND THEIR THIRD PARTY PROVIDERS ARE NOT RESPONSIBLE FOR ANY INTERRUPTIONS, DELAYS, CANCELLATIONS, DELIVERY FAILURES, DATA LOSS, CONTENT CORRUPTION, PACKET LOSS, OR OTHER DAMAGE RESULTING FROM ANY OF THE FOREGOING. In addition, UBIQUITI NETWORKS does not warrant that the operation of the Products will be error-free or that operation will be uninterrupted. In no event shall UBIQUITI NETWORKS be responsible for damages or claims of any nature or description relating to system performance, including coverage, buyer’s selection of products (including the Products) for buyer’s application and/or failure of products (including the Products) to meet government or regulatory requirements.

Limitation of Liability

EXCEPT TO THE EXTENT PROHIBITED BY LOCAL LAW, IN NO EVENT WILL UBIQUITI OR ITS SUBSIDIARIES, AFFILIATES OR SUPPLIERS BE LIABLE FOR DIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGES (INCLUDING LOST PROFIT, LOST DATA, OR DOWNTIME COSTS), ARISING OUT OF THE USE, INABILITY TO USE, OR THE RESULTS OF USE OF THE PRODUCT, WHETHER BASED IN WARRANTY, CONTRACT, TORT OR OTHER LEGAL THEORY, AND WHETHER OR NOT ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Note

Some countries, states and provinces do not allow exclusions of implied warranties or conditions, so the above exclusion may not apply to you. You may have other rights that vary from country to country, state to state, or province to province. Some countries, states and provinces do not allow the exclusion or limitation of liability for incidental or consequential damages, so the above limitation may not apply to you. EXCEPT TO THE EXTENT ALLOWED BY LOCAL LAW, THESE WARRANTY TERMS DO NOT EXCLUDE, RESTRICT OR MODIFY, AND ARE IN ADDITION TO, THE MANDATORY STATUTORY RIGHTS APPLICABLE TO THE LICENSE OF ANY SOFTWARE (EMBEDDED IN THE PRODUCT) TO YOU. The United Nations Convention on Contracts for the International Sale of Goods shall not apply to any transactions regarding the sale of the Products.
Compliance

FCC

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must 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 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operations of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

ISED Canada

CAN ICES-3(A)/NMB-3(A)

This Class A digital apparatus complies with Canadian CAN ICES-003.

CAN ICES-3(A)/NMB-3(A)

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.
Australia and New Zealand

Warning: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

CE Marking

CE marking on this product represents the product is in compliance with all directives that are applicable to it.
European Directive 2012/19/EU requires that the equipment bearing this symbol on the product and/or its packaging must not be disposed of with unsorted municipal waste. The symbol indicates that this product should be disposed of separately from regular household waste streams. It is your responsibility to dispose of this and other electric and electronic equipment via designated collection facilities appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. For more detailed information about the disposal of your old equipment, please contact your local authorities, waste disposal service, or the shop where you purchased the product.
Español
La Directiva 2012/19/UE exige que los equipos que lleven este símbolo en el propio aparato y/o en su embalaje no deben eliminarse junto con otros residuos urbanos no seleccionados. El símbolo indica que el producto en cuestión debe separarse de los residuos domésticos convencionales con vistas a su eliminación. Es responsabilidad suya desechar este y cualesquiera otros aparatos eléctricos y electrónicos a través de los puntos de recogida que ponen a su disposición el gobierno y las autoridades locales. Al desechar y reciclar correctamente estos aparatos estará contribuyendo a evitar posibles consecuencias negativas para el medio ambiente y la salud de las personas. Si desea obtener información más detallada sobre la eliminación segura de su aparato usado, consulte a las autoridades locales, al servicio de recogida y eliminación de residuos de su zona o pregunte en la tienda donde adquirió el producto.

Français
La directive européenne 2012/19/UE exige que l’équipement sur lequel est apposé ce symbole sur le produit et/ou son emballage ne soit pas jeté avec les autres ordures ménagères. Ce symbole indique que le produit doit être éliminé dans un circuit distinct de celui pour les déchets des ménages. Il est de votre responsabilité de jeter ce matériel ainsi que tout autre matériel électrique ou électronique par les moyens de collecte indiqués par le gouvernement et les pouvoirs publics des collectivités territoriales. L’élimination et le recyclage en bonne et due forme ont pour but de lutter contre l’impact néfaste potentiel de ce type de produits sur l’environnement et la santé publique. Pour plus d’informations sur le mode d’élimination de votre ancien équipement, veuillez prendre contact avec les pouvoirs publics locaux, le service de traitement des déchets, ou l’endroit où vous avez acheté le produit.

Italiano
La direttiva europea 2012/19/UE richiede che le apparecchiature contrassegnate con questo simbolo sul prodotto e/o sull’imballaggio non siano smaltite insieme ai rifiuti urbani non differenziati. Il simbolo indica che questo prodotto non deve essere smaltito insieme ai normali rifiuti domestici. È responsabilità del proprietario smaltire sia questi prodotti sia le altre apparecchiature elettriche ed elettroniche mediante le specifiche strutture di raccolta indicate dal governo o dagli enti pubblici locali. Il corretto smaltimento ed il riciclaggio aiuteranno a prevenire conseguenze potenzialmente negative per l’ambiente e per la salute dell’essere umano. Per ricevere informazioni più dettagliate circa lo smaltimento delle vecchie apparecchiature in Vostro possesso, Vi invitiamo a contattare gli enti pubblici di competenza, il servizio di smaltimento rifiuti o il negozio nel quale avete acquistato il prodotto.
Declaration of Conformity

UBIQUITI NETWORKS hereby declares that this UF-OLT-4 device is in compliance with the essential requirements and other relevant provisions of Directives 2014/30/EU, 2014/35/EU. The full text of the EU declaration of conformity is available at the following internet address: www.ubnt.com/compliance
Δια του παρόντος, UBIQUITI NETWORKS, δηλώνει ότι αυτή η συσκευή UF-OLT-4, είναι σε συμμόρφωση με τις βασικές απαιτήσεις και τις λοιπές σχετικές διατάξεις των οδηγιών 2014/30/ΕΕ, 2014/35/ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης ΕΕ διατίθεται στην ακόλουθη ιστοσελίδα στο διαδίκτυο: www.ubnt.com/compliance
Týmto UBIQUITI NETWORKS, prehlasuje, že toto UF-OLT-4 zariadenie, je v súlade so základnými požiadavkami a ďalšími relevantnými ustanoveniami smernice 2014/30/EÚ, 2014/35/EÚ. Úplné EÚ vyhlásenie o zhode je k dispozícii na tejto internetovej adrese: www.ubnt.com/compliance

Družba UBIQUITI NETWORKS izjavlja, da je naprava UF-OLT-4 v skladu z obveznimi zahtevami in drugimi ustreznimi določbami direktiv 2014/30/EU in 2014/35/EU. Celotno besedilo izjave EU o skladnosti je na voljo na naslednjem spletnem naslovu: www.ubnt.com/compliance

Por medio de la presente UBIQUITI NETWORKS declara que este dispositivo UF-OLT-4, cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de las Directivas 2014/30/UE, 2014/35/UE. El texto completo de la declaración UE de conformidad está disponible en la dirección Internet siguiente: www.ubnt.com/compliance

Härmed UBIQUITI NETWORKS, intygar att denna UF-OLT-4 enhet är i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiven 2014/30/EU, 2014/35/EU. Den fullständiga texten till EU-försäkran om överensstämmelse finns på följande webbadress: www.ubnt.com/compliance

Online Resources

Website www.ubnt.com
Support help.ubnt.com
Community community.ubnt.com
Downloads downloads.ubnt.com