



UF-OLT Quick Start Guide

Package Contents



UFiber OLT



SC/UPC GPON SFP Transceiver
(UF-GP-B+)



Mounting Brackets (Qty. 2)



Bracket Screws (Qty. 8)



Mounting Screws (Qty. 4)



Cage Nuts (Qty. 4)



Power Cord



Rubber Feet (Qty. 4)

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)



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[ubnt.link/UFiber-OLT-Modules](https://ubnt.com/UFiber-OLT-Modules)

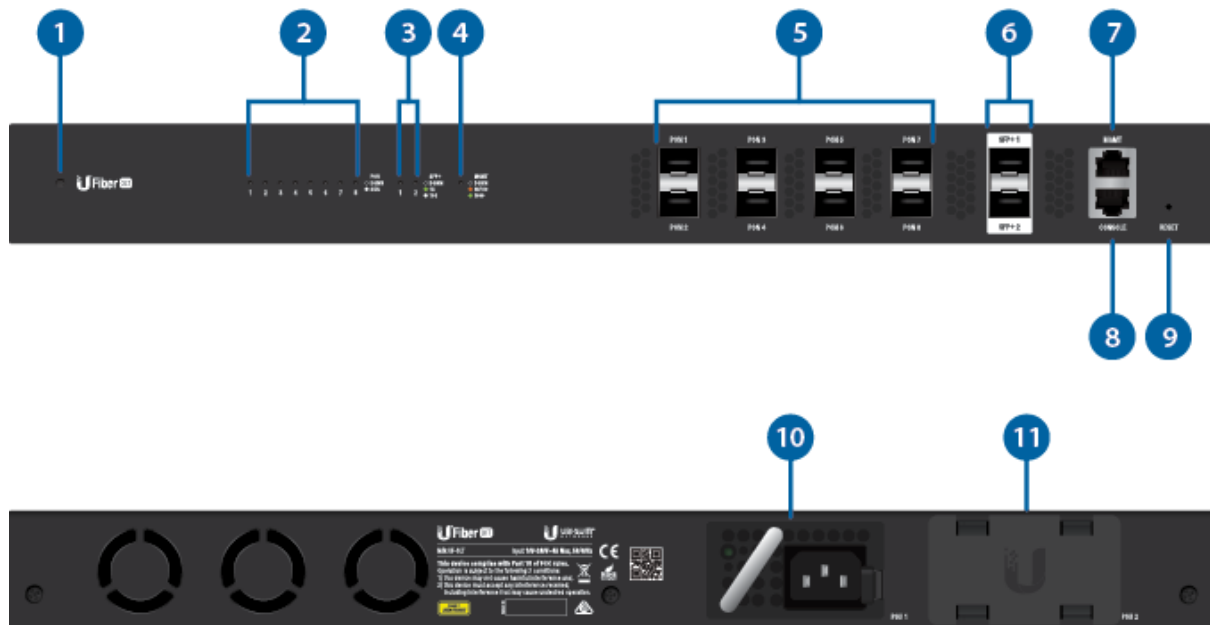
Before You Begin

Designing your first GPON deployment requires specific knowledge and planning. For information on GPON network design and installation, including important considerations and best practices, refer to:

- [ubnt.link/UFiber-GPON-Getting-Started](https://ubnt.com/UFiber-GPON-Getting-Started)
- [ubnt.link/Designing-a-GPON-Network](https://ubnt.com/Designing-a-GPON-Network)

For details on configuring UFiber devices for the first time to allow ONU LAN ports to provide connectivity, refer to: [ubnt.link/UFiber-Initial-Configuration](https://ubnt.com/UFiber-Initial-Configuration)


Hardware Overview



1 System LED	
Blue/Flashing	Initializing/Booting Up
White	Ready for Use
2 PON LED (Ports 1 - 8)	
Off	No Link
White/Flashing	GPON Link/Activity
3 SFP+ LED (Ports 1 - 2)	
Off	No Link



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White/Flashing	10G Link/Activity
4 MGMT LED	
Off	No Link
Amber/Flashing	10/100 Link/Activity
Green/Flashing	1000 Link/Activity
5 GPON (Ports PON 1 - 8)	
Gigabit Passive Optical Network ports support up to 128 clients on each port.	
6 SFP+ (Ports 1 - 2)	
Hot-swappable SFP+ ports support 1G or 10G connections.	
7 MGMT Port	
10/100/1000 Ethernet port used for out-of-band management. For firmware version 4.1 and newer, it is set to DHCP Client with the fallback IP address, 192.168.1.20/24.	
 Note: Previous firmware versions default to a static IP: 192.168.1.1.	
8 Console Port	
<p>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:</p> <ul style="list-style-type: none"> • Baud rate 57600 • Data bits 8 • Parity NONE • Stop bits 1 • Flow control NONE 	
9 Reset Button	
<p>There are two methods to reset the device to factory defaults:</p> <ul style="list-style-type: none"> • Runtime reset (recommended) The device should be running after bootup is complete. Press and hold the Reset button for about 10 seconds until the MGMT LED starts flashing and then becomes solidly lit. After a few seconds, the LED will turn off, and the device will automatically reboot. 	



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can break and become lodged in the hole.

- **Power-on reset** Disconnect power from the device. Press and hold the Reset button while connecting power to the device. Keep holding the button until the MGMT LED starts flashing and then stops flashing after a few seconds.

10 AC/DC PSU Module

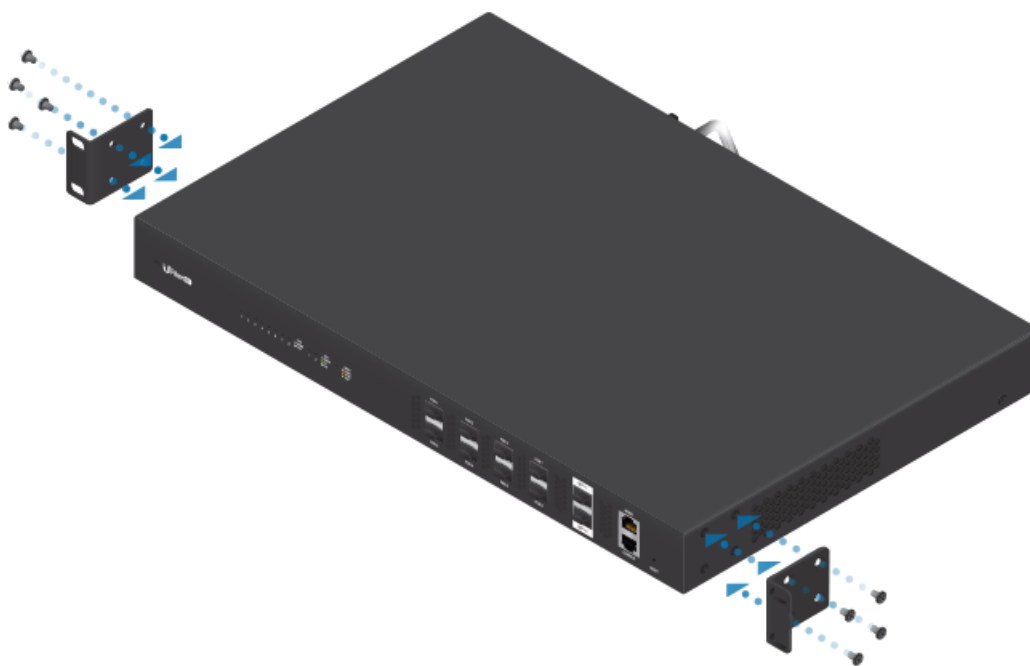
One AC/DC 100W power supply is included. You also have the option to use a DC/DC PowerModule™, model RPS-DC-100W (sold separately).

11 PSU 2 Module Bay

For redundancy, you can add an AC/DC PowerModule, model RPS-AC-100W, or a DC/DC PowerModule (sold separately).

Hardware Installation

1.



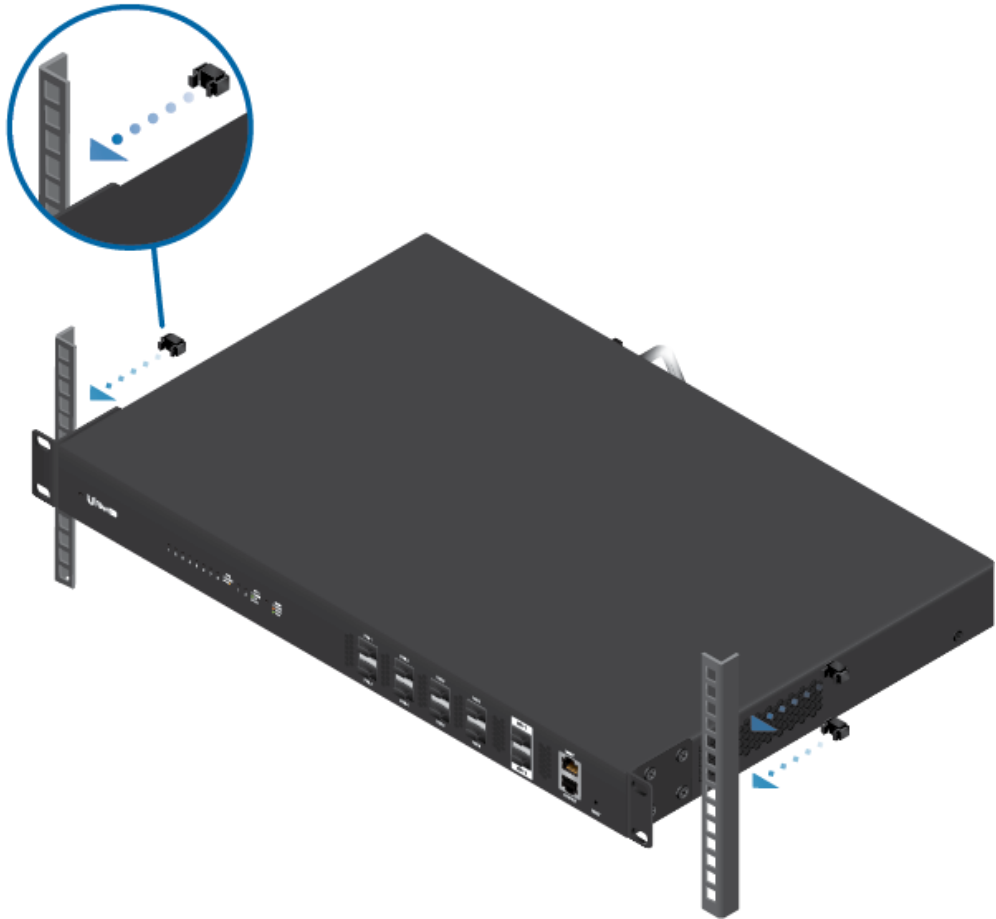
2.



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OR





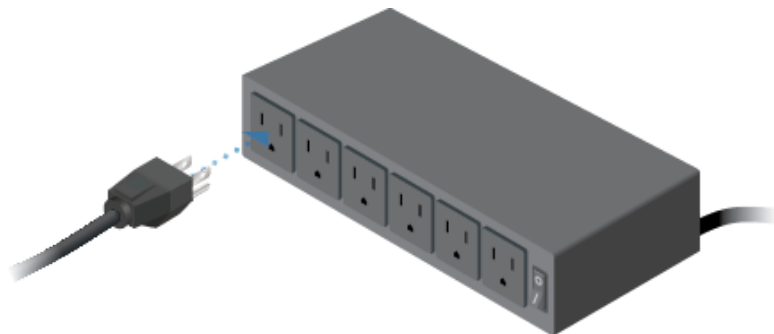
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3.



4.



Connecting a PON Module



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Light could cause damage to the eye.



WARNING: Until ready for use, keep modules and fiber patch cables covered using the included protective caps to ensure the connections stay clean.



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. For information on compatible fiber transceivers, visit: ubnt.link/UFiber-OLT-Modules

1.



2.





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Connecting SFP+

1.



2.



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3.



Accessing the Configuration Interface

The following instructions apply to firmware version 4.1 and newer.



Note: Previous firmware versions default to a static IP: 192.168.1.1.

1. Connect an Ethernet cable from the MGMT port on the device to a LAN segment that has an existing DHCP server.



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2. To check the IP address of the device, use one of the following methods:
 - Set up the DHCP server to provide a specific IP address to the device based on its MAC address (on the label).
 - Let the device obtain an IP address and then check the DHCP server to see which IP address was assigned.
3. Launch your web browser. Enter the appropriate IP address in the address field. Press enter (PC) or return (Mac).
4. Enter ubnt in the Username and Password fields. Click Login.

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Login

Please login to manage your device.

USERNAME
Username

PASSWORD
Password

LOGIN

By signing in to this device, you agree to be bound by the terms and conditions of our [End User License Agreement](#).

UNMS UCRM ULink WiFiman

Customize settings as needed. For more information, refer to the UFiber resources, which are available at: <http://ubnt.link/UFiber-Support>

Installing UNMS



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For the latest UNMS version or controller information, visit: www.unms.com

Specifications

UF-OLT	
Dimensions	442.4 x 285.6 x 43.7 mm (17.42 x 11.24 x 1.72")
Weight	
Without Mount Brackets	4.400 kg (9.70 lb)
With Mount Brackets	4.495 kg (9.91 lb)
Max. Power Consumption	40W (Excluding SFP Transceivers)
Power Method	110 - 240VAC Modular PSU
Power Supply	(1) Hot-Swappable AC/DC 100W PSU (Included)
Supported Voltage Range	AC Input: 100 to 240VAC
Button	Reset
Processor	MIPS 1004Kc 880 MHz Dual-Core
System Memory	512 MB DDR3, 512 MB NAND
LEDs	
System	Status
PON Data Ports	Link/Activity
SFP+ Data Ports	Link/Activity
RJ45 (MGMT) Port	Link/Activity
Interfaces	



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Serial Console Port	Port) (2) 1G/10G SFP+ Ports (1) RJ45 Ethernet Port (1) RJ45 Serial Port
Rackmount	Yes
Operating Temperature	-10 to 45° C (14 to 113° F)
Operating Humidity	10 - 90% Noncondensing
Certifications	CE, FCC, IC
GPON SFP OLT Transceiver (UF-GP-B+)	Single Fiber, SM SC/UPC, 20 km, 1490 nm TX/1310 nm RX, ITU-T G984.2 Class B+

Safety Notices

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



WARNING: Failure to provide proper ventilation may cause fire hazard. Keep at least 20 mm of clearance next to the ventilation holes for adequate airflow.



WARNING: To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.



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.



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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

ui.com/support/warranty

The limited warranty requires the use of arbitration to resolve disputes on an individual basis, and, where applicable, specify arbitration instead of jury trials or class actions.

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)

Australia and New Zealand



Warning: This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

CE Marking

CE marking on this product represents the product is in compliance with all directives that are applicable to it.



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[WEEE Compliance Statement](#)

[Declaration of Conformity](#)

Online Resources



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