





QUICK START GUIDE

Introduction

Thank you for purchasing the Ubiquiti Networks® UFiber loco. This Quick Start Guide is designed to guide you through the installation and also includes the warranty terms.

Package Contents



UFiber loco



Wall Mount Bracket



Screws (Qty. 4)







Screw Anchors (Qty. 4)

Micro-USB Power Adapter* (5V, 1A)

Quick Start Guide

* Included only in the single-pack of the UF-LOCO.

System Requirements

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

TERMS OF USE: All Ethernet cabling runs must use CATS (or above), It is the professional installer's responsibility to follow local country regulations, including operation within legal frequency channels, output power, and indoor cabling requirements.

Hardware Overview

Reset Button



The Reset button serves two functions for the UF-LOCO:

- Restart Press and release the *Reset* button quickly. The three signal LEDs will flash amber.
- Restore to Factory Default Settings Press and hold the Reset button for more than five seconds. The three signal LEDs will light amber in this sequence with a 100-ms delay between patterns:

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Port	Description
PON	SC/APC GPON port supports WAN connections of 2.488 Gbps downstream and 1.244 Gbps upstream.
Q	The Micro-USB Power Adapter connects to this port.
‹· ›	The RJ45 Ethernet port supports a 10/100/1000 Mbps connection and passive 24V PoE to power the device.

LEDs



Ethernet LED

LED	State	Status
\leftrightarrow	Off	Ethernet connection down
	White	Ethernet connection up

Power LED

LED	State	Status
ወ	Off	Power off
0	White	Power on

Signal LEDs

LED	State	Status
	Off	Bootup
	(4)) 4/1 -	Signal strength: low
	(1) White	≥ -28 dBm
-	(2) White	Signal strength: good
		≥ -25 dBm
	(3) White	Signal strength: strong
		≥ -11 dBm
		Signal strength: too low
	(1) Amber	< -28 dBm
-		Check the quality of the fiber connection, and calculate the total optical loss of the optical splitters.
		Signal strength: too strong
	(1) Amber (2) White	≥ -8 dBm
		Add an optical splitter, or add a 5 or 10 dB optical attenuator.
		No signal
	(3) Amber	Check the fiber cables and connectors, and ensure that the OLT functions properly.
	Alternating Between (2) Amber (1) White and	No authority
		The UF-LOCO has not been authorized or cannot communicate with the OLT. Check passwords and OLT settings.
(Varies)	Signal Strength	

Hardware Installation

The UF-LOCO can be mounted on a wall or placed on a desktop.



WARNING: To reduce the risk of fire or electric shock, do not expose the UF-LOCO to rain or moisture.

Wall Mounting

1. Use the *Wall Mount Bracket* as a template and drill four 6 mm holes as shown below.



2. Insert a Screw Anchor into each hole, and then fasten the Wall Mount Bracket using four Screws.



 Mount the UF-LOCO by inserting the top of the UF-LOCO into the *Mount Bracket* and then pivot the bottom into the bracket until it locks into place.



Connecting Fiber

Connect the fiber optic cable from the Passive Optical Network to the **PON** port.



Connecting LAN

1. Connect an Ethernet cable to the LAN port.



 If you are using PoE, go to Connecting Power.
If you are using the Micro-USB Power Adapter, connect the other end of the Ethernet cable to your LAN.

Connecting Power

Connect the power using one of the following options:

- Using the Micro-USB Power Adapter: Go to Connecting to the Micro-USB Power Adapter.
- Using an airCube[™] (not included): Go to *Connecting to the airCube.*



Note: The airCube provides Wi-Fi connectivity with PoE passthrough, so it is the ideal complement to the UF-LOCO for CPE installations.

 Using a PoE switch (not included): Connect the Ethernet cable from the UF-LOCO to a PoE-enabled Ethernet port on the switch.



WARNING: The PoE switch must comply with the power specifications listed in the *Specifications* section of this Quick Start Guide.

Connecting to the Micro-USB Power Adapter

1. Connect the Micro-USB Power Adapter to the power port.



2. Plug the Micro-USB Power Adapter into a power outlet.

Connecting to the airCube

1. Connect the Ethernet cable from the UF-LOCO to the WAN 24V PoE OUT port on the back of the airCube (not included).



2. To power the airCube, follow the instructions in its Quick Start Guide.

Accessing the Configuration Interface

- Ensure that your computer (or other host system) is connected to the UF-LOCO.
- Configure the Ethernet adapter on your host system with a static IP address on the 192.168.1.x subnet.
- Launch your web browser. Type http://192.168.1.1 in the address field. Press enter (PC) or return (Mac).



 The login screen will appear. Enter ubnt in the Username and Password fields. Click Login.

Login
Please logie to manage your device:
Ustrname
Usemaine
Passworth
Password
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The UFiber Configuration Interface will appear. Customize settings as needed. For more information, refer to the UFiber resources, which are available at:

http://ubnt.link/UFiber-Support

OLT Compatibility Profiles

The UF-LOCO is compatible with most major brands of OLT (Optical Line Terminal) and offers four compatibility profiles.

By default the UF-LOCO is set to **Profile 1** - Ubiquiti Networks UFiber OLT. For other brands, manually select **Profile 2, 3**, or **4**.

- 1. Log into the UFiber Configuration Interface.
- 2. The Dashboard screen will appear. Click the Settings ^Q, tab.



3. On the Network screen, click the System tab.



- 4. Select the appropriate profile from the *OLT Profile* drop-down menu:
 - Profile 1 Ubiquiti Networks UFiber OLT
 - Profile 2 Other brands
 - Profile 3 Other brands
 - Profile 4 Other brands

Note: For more information, visit: https://ubnt.link/Supported-3rd-Party-OLTs

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5. Click Save Changes.

The UF-LOCO will automatically restart with the new profile.

Specifications

UF-LOCO		
Dimensions	76.5 x 76.5 x 26.4 mm (3.01 x 3.01 x 1.04")	
Weight	77 g (2.72 oz)	
Networking Interfaces	(1) SC/APC, GPON WAN (1) RJ45, Ethernet LAN	
Networking Interface Speeds	(1) GPON WAN, ITU G.984, 2.488 Gbps Downstream, 1.244 Gbps Upstream (1) GbE LAN, 10/100/1000 Mbps	
Management Interface	In-Band Ethernet PON	
Normal Optical Power Range	TX (Class B+): 1.5 to 5 dBm RX: -28 to -8 dBm	
Power Method	Micro-USB: 5V, 1A 24V Passive PoE (Pins +4, 5; -7, 8)	
Power Supply	Micro-USB Power Adapter*: 5V, 1A	
Max. Power Consumption	3.5W	
Supported Voltage Range	4.7 to 5.3V	
Processor Specs	MIPS-32, 240 MHz	
Memory Information	128 MB DDR3	
Button	(1) Reset	
Operating Temperature	-10 to 45° C (14 to 113° F)	
Operating Humidity	10 to 90% Noncondensing	
Certifications	CE, FCC, IC	

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