



NanoTM G

High-Performance GPON CPE

Model: UF-Nano

QUICK START GUIDE

Introduction

Thank you for purchasing the Ubiquiti Networks® Nano G High-Performance GPON CPE. This Quick Start Guide is designed to guide you through the installation and also includes the warranty terms.



Package Contents



Nano G



Wall Mount Bracket



Screws
(Qty. 4)



Screw Anchors
(Qty. 4)



Gigabit PoE (24V, 0.3A)
with Mount Bracket



Power Cord



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, and indoor cabling requirements.

System Requirements

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

Hardware Overview




Ports



Port	Description
PON	SC/APC GPON port supports WAN connections of 2.488 Gbps downstream and 1.244 Gbps upstream.
↔	RJ45 Ethernet port supports 10/100/1000 Mbps connections and passive PoE to power the device.
Reset	Press and release the Reset button to restore the device to factory default settings.

LED Display



LED	State	Status
	Green	GPON connected and device is integrated into a network and working properly
	Red	No GPON connection. Error code is shown on the Digital Display.
	Flashing Red	Device is discovered by OLT and waiting to be integrated
	Off	No power, device is off
	White	Power on, device is on
	Off	No Ethernet connection
	Green	Ethernet is connected
	Flashing	Ethernet activity

Digital Display

The Digital Display shows device status and RX/TX details of the PON connection. The Digital Display is also a physical button. Press the display to cycle through the information.

- **Mbps** Displays the active download (RX) and upload (TX) speeds of the PON connection.

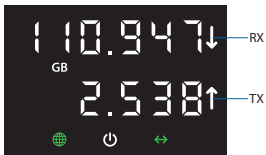


- **dBm** Displays the RX and TX power of the PON connection.



- **Note:** If the GPON LED lights red, a malfunction or error with the PON connection exists. Check and test the fiber optic cable to ensure proper operation.

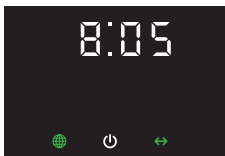
- **GB** Displays the total aggregate data sent downstream and upstream through the PON connection. The counter can be reset using the U Fiber Configuration Interface.



- **IP** Displays the PON (LAN) IP address.



- **Time** Only shown when the time is synced correctly from the servers. Enable or disable the time display using the U Fiber Configuration Interface.



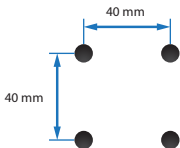
Hardware Installation

The Nano G can be mounted on a wall or placed on a desktop.

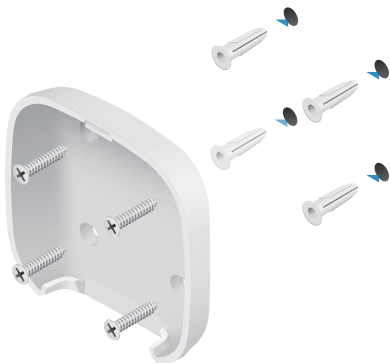
! **WARNING:** To reduce the risk of fire or electric shock, do not expose the Nano G to rain or moisture.

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.



3. Insert the top of the Nano G into the Mount Bracket and then pivot the bottom into the bracket until it locks into place.



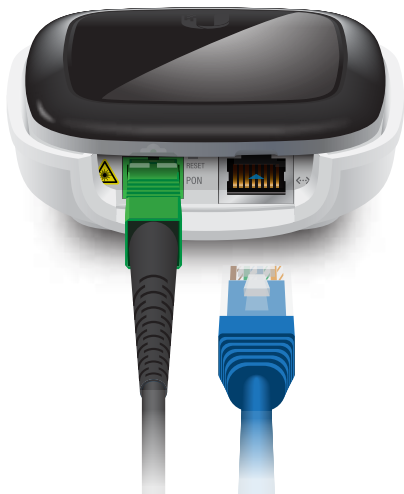
Connecting Fiber

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



Connecting Power

1. Connect an Ethernet cable to the LAN port.



2. Connect the power using one of the following options:
 - Using the included Gigabit PoE Adapter: Go to [Connecting to the PoE Adapter](#)
 - Using a separate PoE switch: Connect the Ethernet cable from the Nano G 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.

Specifications

UF-Nano	
Dimensions	77 x 77 x 28 mm (3.03 x 3.03 x 1.1")
Weight	110 g (3.88 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: -8 to -28 dBm
Power Method	24V Passive PoE (Pins +4, 5; -7, 8) Dying Gasp Support
Power Supply	PoE Adapter: 24V, 0.3A
Max. Power Consumption	7W
Supported Voltage Range	20 to 28V
Processor Specs	MIPS-32, 240 MHz
Memory Information	128 MB DDR3
Buttons	(1) Display Information (1) Reset
Operating Temperature	-10 to 45° C (14 to 113° F)
Operating Humidity	5 to 95% Noncondensing
Certifications	CE, FCC, IC