



U Fiber™

Gigabit Passive Optical Network

Models: UF-OLT, UF-Nano

GPON End-to-End Solution

High-Performance, Provider OLT

Low-Cost, Robust ONU CPE



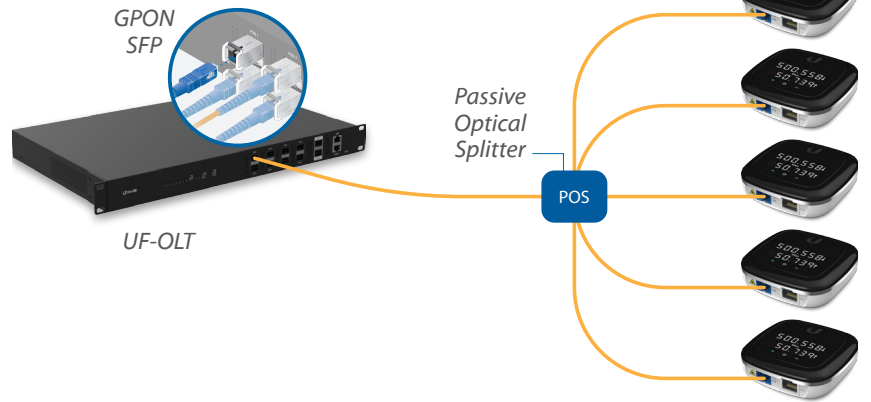
U Fiber™

High-Performance GPON

Introducing U Fiber™ from Ubiquiti Networks, a complete provider end-to-end solution utilizing Gigabit Passive Optical Network (GPON) technology.

U Fiber offers Internet and telecom service providers a cost-effective fiber optic delivery system to their customers. Providers can offer Triple Play Services (data, voice, IPTV/VoD) at speeds of up to 2.4+ Gbps downstream and 1.2+ Gbps upstream.

The U Fiber network is intelligently managed using the included UNMS™ (U Fiber Network Management Software) controller. U Fiber devices consists of the U Fiber OLT (deployed at the provider premise) and the U Fiber Nano™ G consumer premise equipment ONUs.



Up to 128 UF-Nano per OLT GPON Port

UNMS™

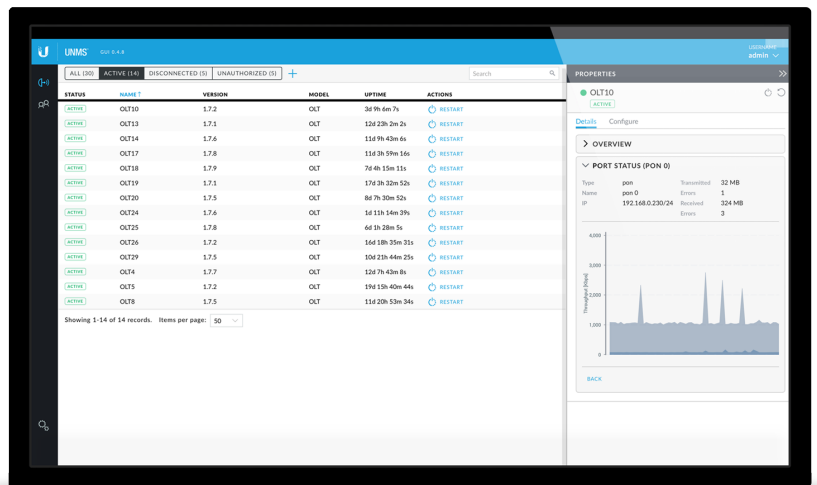
U Fiber Controller Software

Ubiquiti Networks is distinguished by its library of powerful and intuitive management software that is included at no additional cost. The UNMS is the latest addition to the library.

The UNMS is a comprehensive management controller, featuring a graphical UI that is easy to learn and navigate. UNMS manages all of the registered UF-OLTs and all of their UF-Nano clients.

Features

- Intuitive, Graphical Web UI
- Quick Configuration and Deployment of U Fiber devices
- Centralized Management of Multiple GPON Networks and Sites
- Graphical Reports for Efficient Monitoring and Troubleshooting
- Linux-based for Low-Cost Set Up
- No Licensing or Usage Fees





Model: UF-OLT

GPON Optical Line Terminal

The U Fiber OLT offers (8) GPON ports and supports up to 1024 concurrent clients with physical links of up to 20 km in distance. Two SFP+ ports provide 10G uplink connectivity.

The UF-OLT features two modular power adapter bays for flexible power options. One DC/DC power module is included. The second power bay can house a backup power module, or an AC/DC power module can be used for AC powering.

Features

- **WAN:** (8) GPON SFP Ports
- **LAN:** (2) SFP+ Ports
- **Concurrent Clients:** 1024 ONUs
- **GPON Range:** Up to 20 km Link
- **GPON Speeds:** 2.488 Gbps Upstream (TX), 1.244 Gbps Downstream (RX)
- **Wavelengths:** 1490 nm Upstream (TX), 1310 nm Downstream (RX)
- **Max. Power Consumption:** 40W
- **Power Method:** 54VDC
- **Mounting:** 1U Rack-Mountable (Optional)



DC/DC Power Module

Secondary Power Module Bay



Model: UF-Nano

GPON Optical Network Unit

The U Fiber Nano G is a robust, high-performance GPON CPE that features a useful LED display and a sleek, sophisticated industrial design.

Features

- **WAN:** (1) GPON Port
- **LAN:** (1) Gigabit Ethernet Port
- **GPON Speeds:** 2.488 Gbps Downstream (RX), 1.244 Gbps Upstream (TX)
- **Wavelengths:** 1490 nm Downstream (RX), 1310 nm Upstream (TX)
- **Display:** Digital LED for Status Reporting
- **Max. Power Consumption:** 7W
- **Power Method:** 24V Passive PoE
- **Mounting:** Wall-Mountable (Indoor)



Hardware Specifications

UF-OLT	
Dimensions	442.4 x 285.6 x 43.7 mm (17.42 x 11.24 x 1.72")
Weight (with Mount Brackets)	4.40 kg (9.7 lb) 4.495 kg (9.91 lb)
Networking Interfaces	(8) GPON OLT SFP (2) 1G/10G SFP+
Concurrent Clients	1024 Registered ONUs/ONTs (128 per GPON Port)
Management Interfaces	(1) Ethernet Out-of-Band Management, (1) Ethernet In-Band Management, (1) RJ45 Serial Console Port, (1) Bluetooth
GPON Speeds	2.488 Gbps Upstream (TX), 1.244 Gbps Downstream (RX)
Operating Wavelengths	1490 nm TX, 1310 nm RX
Normal Optical Power Range	TX (Class B+): 1.5 dBm to 5 dBm RX: - 8 dBm to - 28 dBm
Range	
Physical Reach	20 km
Logical Reach	60 km
Max. Differential Fiber Distance	20 km (B+) /40 km (C+)
Power Supply	(2) DC/DC or AC/DC PSU Module Bays, (1) 54V 150W DC/DC PSU Module Included
Max. Power Consumption	40W (Excluding SFP modules)
Operating Mode	OLT 2/3 Ethernet Switch and GPON Core
Advanced QoS	Support 8 Priority Queues per User Port and Traffic Classification
Processor Specs	MIPS 1004kc 880 MHz Dual Core
Memory Information	256 MB DDR3, 256 MB NAND
Operating Temperature	-10 to 45° C (14 to 113° F)
Operating Humidity	10 to 90% Noncondensing
Certifications	CE, FCC, IC



Hardware 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 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 dBm to 5 dBm RX: - 8 dBm to - 28 dBm
Power Method	Passive PoE (Pins +4, 5; -7, 8) Dying Gasp Support
Power Supply	PoE Adapter: 24V, 0.3A
Max. Power Consumption	7W
Supported Voltage Range	20V 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

