

Terminal de Línea Óptica GPON / 4 Puertos SFP GPON / 1 Puerto SFP+ 10 G / 512 ONUs Concurrentes / 20 km (12.4 mi) / Rack 1U

SKU: UF-OLT-4 Marca: UBIQUITI Categoría: OLTs

Garantía: 3 años

$39,564.39

Precios con IVA incluido

DESCRIPCIÓN

Terminal de línea óptica GPON diseñada para despliegues de fibra óptica en entornos residenciales y empresariales. Integra 4 puertos SFP GPON con capacidad para 512 ONUs concurrentes distribuidos en 128 clientes por puerto, permitiendo la prestación de servicios triple play de datos, voz e IPTV/VOD. La administración se realiza mediante interfaz gráfica UNMS, eliminando la dependencia de configuraciones por línea de comando. El equipo opera con velocidades de 2.488 Gbps downstream y 1.244 Gbps upstream, con alcance de transmisión de hasta 20 km (12.4 mi). No requiere licencias ni tarifas de uso adicionales. Chasis compacto de 1U para montaje en rack estándar de 19 pulgadas.

Características Generales
• 4 puertos SFP GPON + 1 puerto SFP+ 10 Gb
• 512 ONUs concurrentes (128 clientes/puerto)
• Velocidad downstream: 2.488 Gbps / upstream: 1.244 Gbps
• Distancia máxima de transmisión: 20 km (12.4 mi)
• Sin licencias ni tarifas de uso adicionales
• Gestión mediante UNMS (Ubiquiti Network Management System)
• Sistema de entrega triple play: datos, voz, IPTV/VOD
• Longitud de onda: 1490 nm upstream (TX), 1310 nm downstream (RX)
• Diseño 1U para montaje en rack 19 pulgadas

Desempeño
Puertos GPON: 4 SFP
Puerto uplink: 1 SFP+ 10 Gb
ONUs concurrentes: 512
Clientes por puerto: 128
Downstream: 2.488 Gbps
Upstream: 1.244 Gbps
Distancia máxima: 20 km (12.4 mi)
Longitud onda upstream (TX): 1490 nm
Longitud onda downstream (RX): 1310 nm

Físicas y Eléctricas
Factor de forma: 1U
Montaje: Rack 19 pulgadas
Alimentación: [especificar según datasheet]

Contenido del Paquete
UF-OLT4
[Accesorios de montaje según especificación de fábrica]

ESPECIFICACIONES

Característica 1	**512 ONUs concurrentes sin licencias ni tarifas adicionales**
Característica 2	**Triple play: datos, voz e IPTV/VOD integrados**
Característica 3	**Downstream 2.488 Gbps y upstream 1.244 Gbps**
Característica 4	**Alcance de transmisión hasta 20 km (12.4 mi)**
Característica 5	**Gestión gráfica UNMS sin línea de comando**
Característica 6	**Chasis 1U para montaje estándar en rack 19 pulgadas**

MEMORIA TÉCNICA · UF-OLT-4

Número de parte de esta ficha: UF-OLT-4. La información corresponde a esta variante.

Gigabit Passive Optical Network
Models: UF-OLT, UF-OLT-4, UF-Nano, UF-LOCO
GPON End-to-End Solution
High-Performance, Provider OLT
Low-Cost, Robust ONU CPEDATASHEET
- POS
UF-OLT
Up to 128 UF-Nano or UF-LOCO
per OLT GPON Port
Passive
Optical
Splitter
UF-GP-B+
GPON SFP
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High-Performance GPON
Configuring a fiber network just became
as easy as setting up a smartphone. Say
goodbye to command lines, manuals,
and paid support licenses. Introducing
the U Fiber OLT – a fiber solution that
anyone can deploy.
U Fiber offers internet and telecom
service providers a cost-effective fiber

optic delivery system for Triple Play Services (data, voice, IPTV/VoD) with speeds of up to 2.488 Gbps downstream and 1.244 Gbps upstream.
The U Fiber network is intelligently managed using the included UNMS ™
- (Ubiquiti® Network Management System) controller. U Fiber devices consist of the U Fiber OLT or OLT-4 (deployed at the provider premises) and the U Fiber Nano G or loco clients, which function as ONU CPEs (Customer Premises Equipment).
U Fiber Controller Software
Ubiquiti Networks distinguishes itself with a library of powerful and intuitive management software that is included at no additional cost. The UNMS is the latest addition to the library.
UNMS is a comprehensive management controller, featuring a graphical UI that is easy to learn and navigate. UNMS manages all of the registered UFiber OLTs and all of their ONU 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 Software Installation
- Bundled Software – No Licensing or Support Fees
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The U Fiber OLT supports up to 128 ONU CPEs per GPON port with physical links of up to 20 km in distance. It also features SFP+ connectivity for uplinking.
The UFiber OLT is available in two models: the UF-OLT for eight GPON ports and the UF-OLT-4 for four GPON ports.
Features
- GPON Speeds:
- 2.488 Gbps Upstream (TX)
- 1.244 Gbps Downstream (RX)
- Wavelengths:
- 1490 nm Upstream (TX)
- 1310 nm Downstream (RX)
- GPON Range: Up to 20 km Link
- Mounting Options:
- 1U Rack
- Wall
- Desktop
- Management Options:
- Gigabit Ethernet Port (Out-of-Band)
- RJ45 Serial Console Port (CLI)
Model: UF-OLT-4
4-Port GPON Optical Line Terminal
Features
- Ports:
- (4) GPON SFP Ports
- (1) SFP+ Port
- Concurrent Clients: 512 ONUs Total (128 Clients per Port)
- Max. Power Consumption: 35W
- Power Method: 100-240VAC/50-60 Hz, Universal Input
Optical Line Terminal
Model: UF-OLT
8-Port GPON Optical Line Terminal
Features
- Ports:
- (8) GPON SFP Ports
- (2) SFP+ Ports
- Concurrent Clients: 1024 ONUs Total (128 Clients per Port)
- Max. Power Consumption: 40W
- Power Method: Hot-Swappable Power Module(s)
- AC/DC Power Module (Included)
- DC/DC Power Module (Optional)
AC/DC Power Module
Secondary Power Module Bay
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Model: UF-Nano
GPON Optical Network Unit
Featuring an informational LED display, the U Fiber Nano G is a robust, high-performance GPON CPE housed in a sophisticated design. It is powered by 24V passive PoE.
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)
Model: UF-LOCO
GPON Optical Network Unit
Sporting a sleek industrial design, the U Fiber loco is
a robust, high-performance GPON CPE that features
extremely low power consumption and the choice of
24V passive PoE or Micro-USB power.
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)
- Max. Power Consumption: 3.5W
- Power Method: 24V Passive PoE or Micro-USB
Power Adapter*
- Mounting: Wall-Mountable (Indoor)
* Included only in the single-pack of the UF-LOCO
- Model Comparison
RPS-AC-100W RPS-DC-100W
Power Type AC/DC DC/DC
Input Voltage Range 90-264VAC 38-54VDC
Output Voltage Range 24-26VDC 23-25V
Operating Temperature-10 to 45° C (14 to 104° F)-10 to 50° C (14 to 122° F)
Operating Humidity5 to 95% Noncondensing 5 to 95% Noncondensing
Power Modules
The UF-OLT comes with one AC/DC
power module pre-installed and
features two modular power adapter
bays for flexible power options:
Backup Power The second power
bay can house a backup power
module. If the UF-OLT detects failure
of the primary power module,
the backup module automatically
activates to supply uninterrupted
power.
DC/DC Power Both power bays can
also house a DC/DC power module
for use with DC power.
Available power modules are:
RPS-AC-100W and RPS-DC-100W.
- Accessories
GPON SFP Modules
The UFiber OLT’s GPON SFP ports are
designed for use with the UF-GP-B+
and UF-GP-C+ SFP modules.
Each model, the UF-OLT or UF-OLT-4,
includes one UF-GP-B+ module;
additional modules can be purchased
separately.
- Model Comparison
UF-GP-B+ UF-GP-C+
Supported Media Single-Mode Fiber Single-Mode Fiber
Connector Type (1) SC/UPC (1) SC/UPC
TX Wavelength 1490 nm 1490 nm
RX Wavelength 1310 nm 1310 nm
TX Power Range 1.5 to 5 dBm 3 to 7 dBm
RX Power Range -28 to -8 dBm -30 to -12 dBm
Downstream Data Rate 2.5 Gbps 2.5 Gbps
Upstream Data Rate 1.25 Gbps 1.25 Gbps
Cable Distance 20 km 20 km
Pack Options 20-Pack 20-Pack
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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 (9.70 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 for Out-of-Band Management
(1) RJ45 Serial Console Port
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: -28 dBm to -8 dBm
Range
Physical Reach
Logical Reach
Max. Differential Fiber Distance
20 km
60 km
20 km (B+) /40 km (C+)
Power Method 100-240VAC, 100W AC/DC Power Module (Included)
38-54VDC, 100W DC/DC Power Module (Optional)
Power Supply (1) 25V, 100W AC/DC PSU Module (Included)
Max. Power Consumption 40W (Excluding SFP Modules)
Operating Mode OLT 2/3 Ethernet Switch and GPON Core
Advanced QoS Supports 8 Priority Queues per User Port and Traffic Classification
Processor Specs MIPS 1004kc, 880 MHz Dual Core
Memory Information 512 MB DDR3, 512 MB NAND

Operating Temperature -10 to 45° C (14 to 113° F)
Operating Humidity 10 to 90% Noncondensing
Certifications CE, FCC, IC
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Hardware Specifications
UF-OLT-4
Dimensions 299.80 x 258.95 x 42.55 mm (11.80 x 10.19 x 1.68")
Weight
(with Mount Brackets)
1.93 kg (4.25 lb)
2.13 kg (4.70 lb)
Networking Interfaces (4) GPON OLT SFP
(1) 1G/10G SFP+
Concurrent Clients 512 Registered ONUs/ONTs (128 per GPON Port)
Management Interfaces (1) Ethernet for Out-of-Band Management
(1) RJ45 Serial Console Port
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: -28 dBm to -8 dBm
Range
Physical Reach
Logical Reach
Max. Differential Fiber Distance
20 km
60 km
20 km (B+) /40 km (C+)
Power Method 100-240VAC/50-60 Hz, Universal Input
Power Supply AC/DC Internal 56W DC
Max. Power Consumption 35W (Excluding SFP Modules)
Operating Mode OLT 2/3 Ethernet Switch and GPON Core
Advanced QoS Supports 8 Priority Queues per User Port and Traffic Classification
Processor Specs MIPS 1004kc, 880 MHz Dual Core
Memory Information 512 MB DDR3, 512 MB NAND
Operating Temperature -10 to 45° C (14 to 113° F)
Operating Humidity 10 to 90% Noncondensing
Certifications CE, FCC, IC
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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: -28 dBm to -8 dBm
Power Method Passive PoE (Pins +4, 5; -7, 8)
Dying Gasp Support
Power Supply PoE Adapter: 24V, 0.3A (Included)
Max. Power Consumption 7W
Supported Voltage Range 20V to 28V
Processor Specs MIPS32, 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
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PowerModule, and UNMS are trademarks or registered trademarks of Ubiquiti Networks, Inc. in the United States and in other countries. All other trademarks
are the property of their respective owners.
Hardware 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 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: -28 dBm 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 MIPS32, 240 MHz
Memory Information 128 MB DDR3
Buttons (1) Reset
Operating Temperature -10 to 45° C (14 to 113° F)
Operating Humidity 10 to 90% Noncondensing
Certifications CE, FCC, IC
* Included only in the single-pack of the UF-LOCO