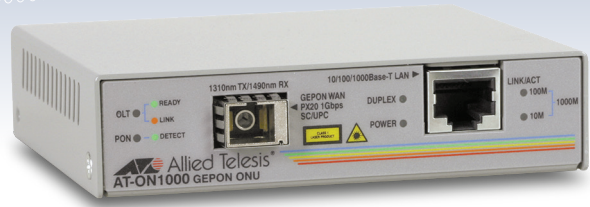


# AT-ON1000

## GEPON Optical Networking Unit

The AT-ON1000 GEPON ONU is a small form factor optical networking unit (ONU) designed to support data services of up to one Gigabit over the Allied Telesis GEPON architecture.



### Deliver High Bandwidth Data Services over GEPON

The Allied Telesis AT-ON1000 GEPON ONU is a small form factor optical networking unit (ONU) designed to support data services of up to 1Gbps over a GEPON network. Ideal for businesses requiring high bandwidth data and video services, the ON1000 complements the Allied Telesis end-to-end GEPON solution including the GEPON-equipped intelligent Multiservice Access Platform (iMAP) and intelligent Multiservice Gateway (iMG).

### Industry-Standard PON - Simplified

The ON1000 simplifies the delivery of data services over a PON network. Ideal for residences or businesses requiring a high-bandwidth data connection, the ON1000 makes any business network GEPON ready by providing IEEE compliant 802.3ah PX20 WAN uplink and a 10/100/1000T LAN connection in a small 4"x4" metal enclosure. An ON1000 then converts existing Ethernet switches and routers into GEPON network termination points, allowing for a complete PON overbuild of service provider networks. AlliedView NMS manages and configures the complete GEPON solution, from AlliedTelesis routers and switches through the iMAP OLT and the ON1000.

### End-to-End PON Network

Allied Telesis provides a complete flexible GEPON solution with the iMAP 9000 GEPON OLT, GEPON iMG and the ON1000 to match any network requirement. The GEPON iMG and ON1000 are optimized for delivery of high bandwidth data and Triple Play services over a PON network. The ON1000 supports the low cost delivery of Ethernet services over service-differentiated VLANs, while the iMG746MOD PKG3 or iMG2426F-B04 (GEPON iMGs) also integrates VoIP and switching and routing functionality into a common platform. These interchangeable end points coexist on the same OLT PON, allowing maximum flexibility for network designs. Take advantage of a PON architecture to leverage existing fiber infrastructure to provide next-generation FTTx services.

## Key Features

- ▶ IEEE 803.2ah PX20 Compliant ONU
- ▶ 1Gbps Data Delivery
- ▶ Small Form Factor
- ▶ Flexible Mounting Options: Wall, Desk or Rack Mount
- ▶ External AC Adapter
- ▶ Securely Managed and Configured via AlliedView NMS

## Specifications

### Ports

1 x 1Gbps PX20 WAN (SC/UPC)  
(optics budget exceeds PX20 specification) 1 x  
10/100/1000bT LAN (RJ45)

### Protocols and Standards

When used with iMAP GEAPON OLT Blade (AT-TN-118)

IGMP v1/v2 Snooping  
DHCP Option 82, Snooping / Relay  
VLAN Support for up to 6 VLANs, 0 or 1 untagged Service  
Level Agreement Support: Minimum /Maximum Bandwidth  
guarantees per VLAN / Service  
Downstream and Upstream  
(using powerful DBA) Traffic  
Classifier Support

Statistics Collection: RMON  
ifTable, ifXTable

MAC Address Filtering  
IEEE 802.1q VLAN Tagging  
IEEE 802.1p Prioritization

EPON Standard  
IEEE Std 802.3ah - 2004  
IEEE 802.3ah OAM Clause 54  
IEEE 802.3ah Optics Clause 60 (PX20)  
IEEE 802.3ah Multi-point MAC Control Clause 64

### Physical Characteristics

Dimensions (W x D x H): 10.2 cm x 9.3 cm x 2.4 cm  
4.03 in x 3.65 in x 0.95 in  
Weight 0.311 kg (11 oz)

### LEDs

PON – Detect	Solid when good optical input signal detected
OLT – Link Ready	Solid Amber when registered to OLT Solid Green when configured by OLT
Power Duplex	Solid Green when Power okay Off – Half Duplex Solid – Full Duplex
Link / Act	10Mbps Link – Bottom LED solid 10Mbps Activity – Bottom LED flashing 100Mbps Link – Top LED solid 100Mbps Activity – Top LED flashing 1000Mbps Link – Both LEDs solid 1000Mbps Activity – Both LEDs flashing

### Network Management

iMAP9100 GEAPON OLT Blade, AlliedView NMS  
Management and firmware upgrades through 802.3ah  
OAM extensions from the OLT

### Power Characteristics

Maximum Power Consumption: 6 Watts  
Voltage Requirements 12V DC

### Environmental Specifications

Operating Temperature 0 °C to 50 °C (32°F to 122°F)  
Storage Temperature -20 °C to 50 °C (-4°F to 122°F)  
Operating Humidity 5% to 90% non-condensing  
Storage Humidity 5% to 95% non-condensing  
RoHS Compliant

### Regulatory Approvals

Safety	UL 60950-1, CAS C22.2 No. 60950-1-03, EN60950, EN60825 (TUV)
Emissions	EN55022 (European countries) FCC Part 15 Subpart B (USA) ICES 003 (Canada) AS/NZS (Australia, New Zealand) VCCI (Japan)
Immunity	EN55024

### Warranty

1 year

## Ordering Information

**AT-ON1000-60**  
GEAPON Optical Networking Unit