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)
(allowable optic budget exceeds PX20 specification)
1 x 10/100/1000T LAN (RJ45)

Protocols and Standards
When used with iMAP GEPON 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, #XTable
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 Multicast 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
Power
Solid Green when Power okay
Duplex
Solid – Full Duplex
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 GEPON 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 (TÜV)
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
GEPON Optical Networking Unit