

GPON OLT

▶ G1004, G1008, G1012, G1016 ◀

Along with an extensive portfolio of Broadband residential and business gateways, Atrie Technology is introducing a range of small central office solutions. These solutions are excellent for smaller deployments with optimum price, functionality and performance. Our 1U “Pizzabox” sized solutions are designed to match our residential and business gateways and are, through the use of open standards, highly interoperable with all common suppliers of broadband Customer Premises Equipment.

The G1004 (4 ports OLT), G1008 (8 ports OLT), G1012 (12 ports OLT) and G1016 (16 ports OLT) are the industry’s most dense and compact GPON OLT. This system is fully compliant with the ITU-T / FSAN G.984.1-4 standard and with a split ratio of 1:64 handles up to 1024 subscribers per system (based 16 GPON ports).

The system offers a very rich feature set (layer 2+) and extensively supports IGMP, QoS and Security making it an ideal platform to deploy new high bandwidth demanding services such as Video on Demand (VoD) and IPTV.

The system supports a range of uplink modules for connectivity to the service provider metro and distribution network based on several 1G SFP modules or a 10G XFP interface.

Features

GPON

- Compliant with ITU-T G.984.1-4 G-PON
- 2.5Gbps downstream and 1.25Gbps upstream
- DBA (Dynamic Bandwidth Allocation) and QoS based on 4,096 of T-CONT
- 128 bit AES Encryption and FEC

High Performance Layer 2 Switching

- Full throughput for all ports (non-blocking)
- High capacity packet switching (16K MAC table)
- Powerful Layer 1 ~ 4 filtering and QoS
- IGMP Snooping/Proxy for multicasting network

Interfaces

- Downlink Interface: 4,8,12 or 16 PONs (SFP based, Optics not included)
- Uplink interface: 2 uplink slots
- 2 x 10/100/1000Base-Tx, 2 x 1GbE (SFP) or 1 x 10GbE (XFP); Optics not included.
- Service configuration - FTTH-LAN/FTTH-VDSL

Excellent Operation and Management

- SNMP/syslog/Telnet & Console

Security

- Layer 1~4 Packet filtering (ACL)
- NetBEUI / BIOS / NBT Packet filtering
- DHCP Packet filtering
- MAC Restriction per port
- Ingress/Egress limit per port by 64Kbps unit
- Broadcast / Multicast / DLF packet limit
- Port flood guard for abnormal traffic
- Loop detection and blocking

**Power redundancy (both AC and DC)
19” standard rack mountable - 1U**

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Specification

GPON

- ITU-T G.984.1,2,3,4 compliant
- Downstream: 2.5Gbps, 1490nm, Class B+
- Upstream: 1.25Gbps, 1310nm, Class B+
- Service Distance: over 20km

Switching

- Layer 2 Switching (Store and Forward)
- Switching Capacity: 80Gbps Ethernet Switching
- Switching Performance:
Full throughput for all ports (Non-blocking)
16 K MAC
4095 VLANs
- Multicasting: IGMP snooping, IGMP proxy
- STP, PVSTP, RSTP
- Link aggregation, LACP
- DHCP relay with Option 82

Security

- Packet filtering (Access control list), Port floodguard
- MAC address limitation per port
- NetBIOS/NetBEUI/NBT filtering, Private DHCP server
- Packet filtering

QoS

- 8 priorities queues per port
- 802.1p, ToS, DSCP marking/remarking
- Scheduling : SPQ, WRR, WFQ

Congestion Control

- HOL Blocking prevention
- Back pressure, 802.1x

Management

- CLI, Telnet, RMON, SNMP v1/v2, OMCI
- Remote S/W upgrade via TFTP and FTP
- Alarm (Critical, Major, Minor)
- Built-in Real-time clock, NTP, Built-in thermometer,
- Fan status monitoring, Optical signal monitoring

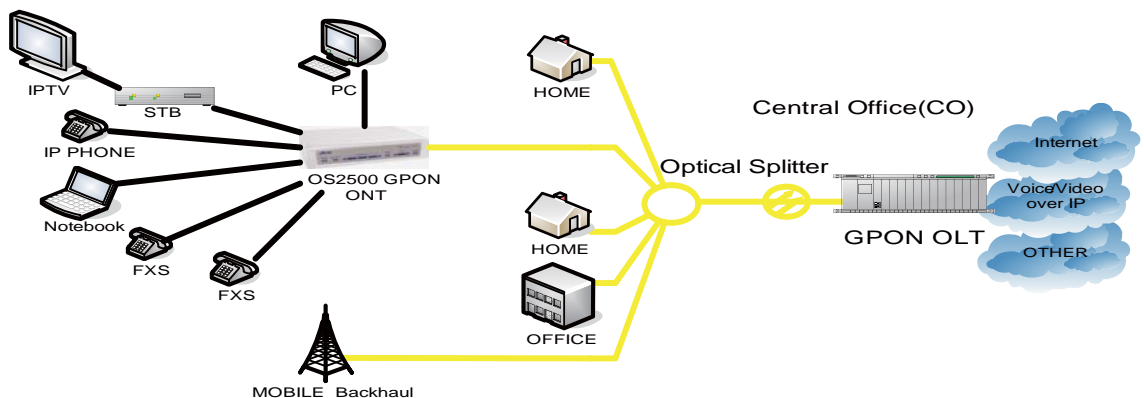
System

- G1004 : 4 GPON interfaces
- G1008 : 8 GPON interfaces
- G1012 : 12 GPON interfaces
- G1016 : 16 GPON interfaces
- Uplink Interface: 2 uplink slots each for
 - 2 ports of 10/100/1000Base-Tx
 - 2 ports of 1000Base-X or
 - 1 ports of 10GbE
- Dimensions: 430(w) x 310(d) x 44(h) mm
 - 19 Inch standard rack mountable (1U)
- Front Access Structure
- Power redundancy, fan, thermometer

Operation

- Input Power: 48VDC or 100~220 VAC 60Hz
- Power consumption: max. 140 W
- Operation Temp: 0 C ~ 40 C
- Noise: max. 45dBA

Application



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Ver.1.0

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