

# ALPHA BRIDGE PIZZA BOX GPON OLT

## AGL04-AF



Advanced Hardware Architecture and Industry-leading Port Density.



Verified Service characteristics, Versatile IPv6 solution, Complete Security Mechanism.

### GPON

Gigabit Passive optical networks have been a staple for service providers worldwide but have primarily focused on fibre to the home and metro Ethernet residential deployments. A number of different deployment scenarios have emerged that effectively leverage many of the strengths of the PON topology.

- Hospitality/healthcare

- Deliver end users predictable and stable connectivity.
- Offer data, voice, and video with the same infrastructure.
- Point-to-multipoint distribution network for scale.
- Simple and stable deployment in spread-out areas.

- Public sector

- Offer critical service and security dependencies to make sure the services are performing without any attack - Offer data, voice, and video with the same infrastructure.
- Simple and stable deployment in spread-out areas.

- Commercial buildings

- Highly available network infrastructure with energy efficiency and space savings.
- Cope with constantly changing environments without rewiring or additional investment.

### Product Overview

ABTPL's PON series OLT's make refreshing your passive optical networks easy, which fully compliance with ITU-T G.984/G.988 standards. Coordinate with ABTPL's ONT, it completes the end-to-end optical last mile with up to 2.5Gbps bandwidth for triple play services to residential and business customers.

#### Key Benefits

##### **Cost-effective Triple Play Transport**

AGL04-AF/V2 supports up to 4 PON links, each delivering 2.5Gbps (Downstream)/1.25Gbps (Upstream) of share bandwidth serving a maximum of 512 subscribers from a compact 1U chassis. It also supports 4\*1/10GE SFP+ and 4\*GE RJ45 interface for uplink. High subscriber density and low cost of entry, combined with the operational cost savings of GPON technology make ABTPL GPON a compelling alternative to legacy, last-mile access solutions.

##### **Enriched Bandwidth Allocate Policy**

AGL04-AF/V2 supports 1024 ALLOC-IDs and 4096 GEM-Ports. It supports 5 T-CONT types of compliance with ITU-T G.984.3 as well. The enriched QoS features such as traffic policy/traffic shaping/rate limit/Schedule allow operators to provision flexible bandwidth allocate policy for multiple customized service.

##### **Flexible Provisioning, Quick to Revenue**

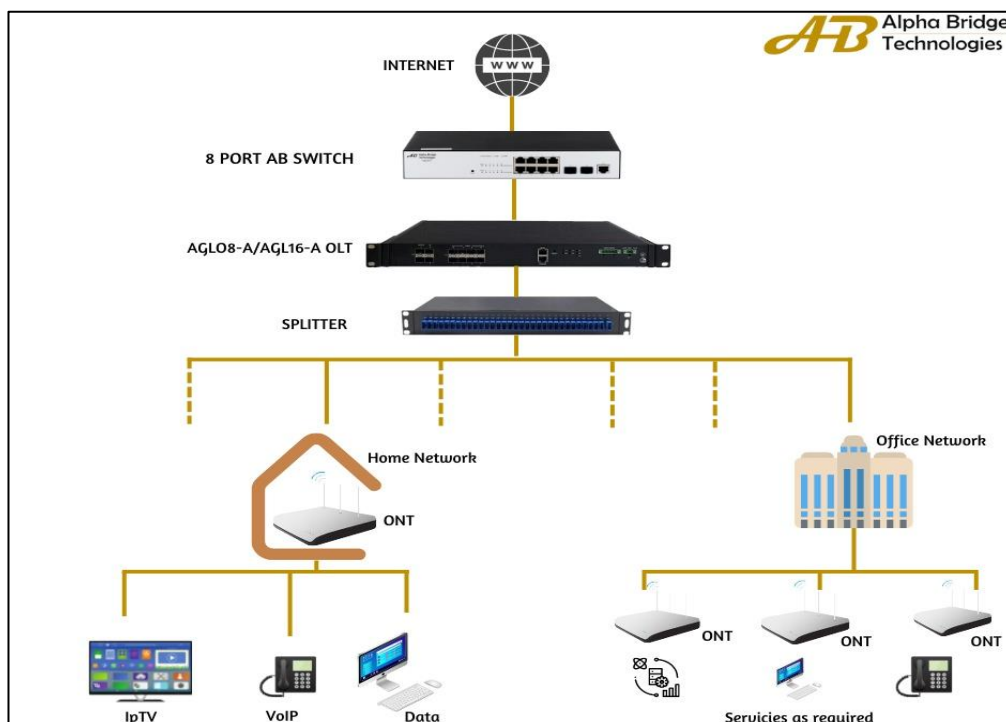
AGL04-AF/V2 support SNMP/CLI for remote management. Powerful OMCI functions enable remote diagnostics, flexible provisioning, and reconfiguration of the ABTPL NMS platform.

## Main Features:

- Rich Layer 2/3 switching features and Flexible management methods
- Support multiple link redundancy protocols such as Flex link/STP/RSTP/MSTP/ERPS/LACP
- Support RIP, OSPF, BGP, ISIS and IPV6
- Safe DDOS and virus attack protection
- Support Power redundancy backup, Modular power supply
- Support power failure alarm
- Type C management interface

## Product Specifications

Item	AGL04-AF/V2
Interface (Ports)	4*GPON Port 4*10/100/1000M Base-T 4*1000M Base-X SFP/4*10GE SFP+
Exchange capacity (Gbps)	103Gbps
Management port	RJ 45 Console & Type C
Packet forwarding rate (Mpps)	77.376
Chassis Dimensions (WxHxD) (mm)	440mm*44mm*260mm
Chassis Weight	5Kg
Power consumption	65W
Power supply	AC: 100-240V
Fan number	3
Memory and Storage	Memory: 2GB, storage: 8 GB
Vlan	4K
MAC	64K
Jumbo frame	9K



## Product Features

PON	VLAN	MAC
<p>Comply with ITU-TG.984/G.988 standard</p> <p>20KM Physical differential distance, 60KM transmission distance</p> <p>1:128 Max splitting ratio</p> <p>Standard OMCI management function</p> <p>Open to any brand of ONT</p> <p>ONU batch software upgrade</p>	<p>Support 4K VLAN</p> <p>Support Vlan based on port, MAC and protocol</p> <p>Support dual Tag VLAN, port-based static QinQ and flexible QinQ</p>	<p>64K Mac address</p> <p>Support static MAC address setting</p> <p>Support black hole MAC address filtering</p> <p>Support port MAC address limit</p>
		<p><b>Mirroring</b></p> <p>Support port mirroring</p> <p>Support stream mirroring</p>
Ring Network protocol	Port Control	Port Aggregation
<p>Support STP/RSTP/MSTP</p> <p>Support ERPS Ethernet ring network protection protocol</p> <p>Support Loopback-detection port loopback detection</p>	<p>Support two-way bandwidth control</p> <p>Support port storm suppression</p> <p>Support 9K Jumbo ultra-long frame forwarding</p>	<p>Support static link aggregation</p> <p>Support dynamic LACP</p> <p>Each aggregation group supports a max. of 8 ports</p>
Safety	QoS	ACL
<ul style="list-style-type: none"> <li>&gt;Support user hierarchical management and password protection.</li> <li>&gt;Support IEEE 802.1X authentication.</li> <li>&gt;Support broadcast message rate suppression.</li> <li>&gt;Support Radius &amp; TACACS+ authentication.</li> <li>&gt;Support MAC address learning limit, support black hole MAC function.</li> <li>&gt;Support port isolation.</li> <li>&gt;Support DOS attack and virus attack protection.</li> <li>&gt;Support IP Source Guard Support ARP flood suppression and ARP spoofing protection.</li> </ul>	<p>Support flow rate limiting function based on custom business flow.</p> <p>Supports mirroring and redirection functions based on custom business flows.</p> <p>Support priority marking based on custom service flow, support 802.1P, DSCP priority Remark capability Support port-based priority scheduling function.</p> <p>support queue scheduling algorithms such as SP/WRR/SP+WRR.</p>	<p>Support standard and extended ACL.</p> <p>Support ACL policy based on time period.</p> <p>Provide flow classification and flow definition based on IP header information such as Source/ Destination.</p> <p>MAC address, address, L4 port number, protocol type, etc.</p> <p>VLAN, 802.1p, ToS, DSCP, source/destination IP</p>
Layer 3	System Management	Temperature & Humidity
<p>Support ARP learning and Aging.</p> <p>Support Static Route.</p> <p>Support dynamic route RIP/OSPF/BGP/ISIS</p> <p>Support VRRP</p> <p>DHCP Server/DHCP Relay</p>	<p>CLI, Telnet, WEB, SNMP V1/V2/V3, SSH2.0</p> <p>Support FTP, TFTP file upload and download</p> <p>RMON, SNTP, 802.3ah Ethernet OAM, RFC 3164 Syslog, Ping and Traceroute, system work log</p> <p>Support LLDP neighbor device discovery protocol</p>	<p>Working Temperature: -10°C ~ 55°C</p> <p>Storage temperature: -40°C ~ 70°C</p> <p>Operating humidity: 10% ~ 95% (non-condensing)</p> <p>Storage humidity: 10% ~ 95% (non-condensing)</p>

## Ordering Information

Item	Description
AGL04-AF/V2	4*PON port, 4*10GE/GE SFP +4GE RJ45 uplink port, 1*RJ45 Console interface, 1*RJ45 out band Interface, 1*Type C and 1*USB port, Power AC+AC, with FAN

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