

# ALPHA BRIDGE PIZZA BOX GPON OLT

## AGL08-DF



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



Advanced Hardware Architecture and Industry-leading Port Density.

### 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**

AGL08-DF/V2 supports up to 8 PON links, each delivering 2.5Gbps (Downstream)/1.25Gbps (Upstream) of share bandwidth serving a maximum of 1024 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**

AGL08-DF/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**

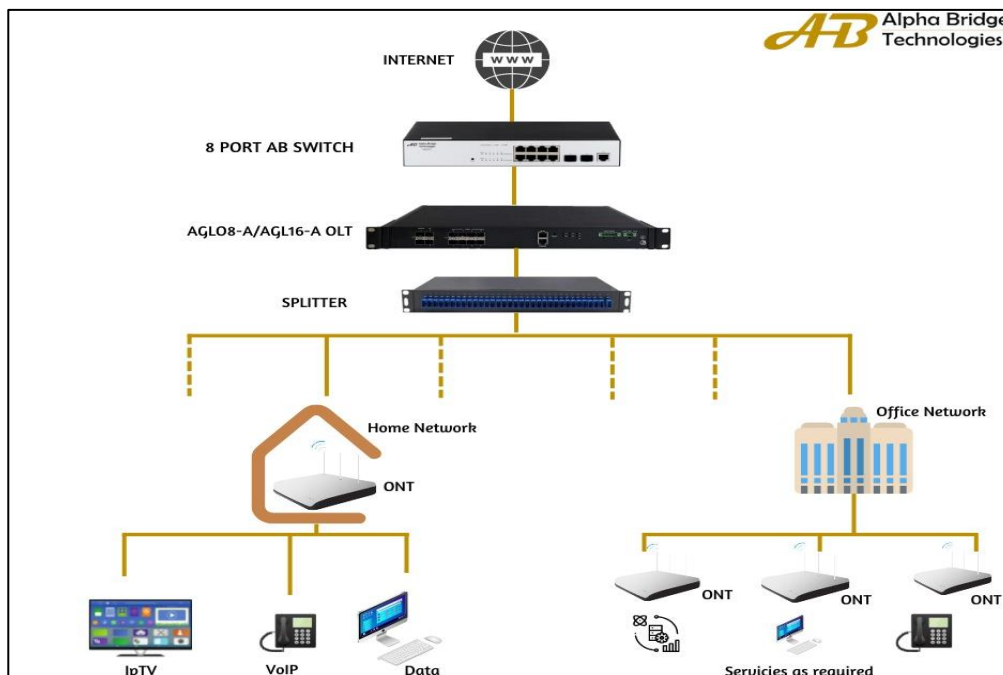
AGL08-DF/V2 support SNMP/CLI for remote management. Powerful OMCI functions enable remote diagnostics, flexible provisioning, and reconfiguration of the ABTPL NMS platform.

## 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	AGL08-DF/V2
Interface (Ports)	8*GPON Port 4*10/100/1000M Base-T 4*1000M Base-X SFP/4*10GE SFP+
Exchange capacity (Gbps)	118Gbps
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	DC: 36-72V
Fan number	3
Memory and Storage	Memory: 2GB, storage: 8 GB
Vlan	4K
MAC	64K
Jumbo frame	9K



## Product Features

PON	VLAN	MAC
Comply with ITU-TG.984/G.988 standard	Support 4K VLAN	64K Mac address
20KM Physical differential distance, 60KM transmission distance	Support Vlan based on port,	Support static MAC address setting
1:128 Max splitting ratio	MAC and protocol	Support black hole MAC address filtering
Standard OMCI management function	Support dual Tag VLAN,	Support port MAC address limit
Open to any brand of ONT	port-based static QinQ and flexible QinQ	<b>Mirroring</b>
ONU batch software upgrade		Support port mirroring Support stream mirroring
Ring Network protocol	Port Control	Port Aggregation
Support STP/RSTP/MSTP	Support two-way bandwidth control	Support static link aggregation
Support ERPS Ethernet ring network protection protocol	Support port storm suppression	Support dynamic LACP
Support Loopback-detection port loopback detection	Support 9K Jumbo ultra-long frame forwarding	Each aggregation group supports a max. of 8 ports
Safety	QoS	ACL
>Support user hierarchical management and password protection.	Support flow rate limiting function based on custom business flow.	Support standard and extended ACL.
>Support IEEE 802.1X authentication.	Supports mirroring and redirection functions based on custom business flows.	Support ACL policy based on time period.
>Support broadcast message rate suppression.		Provide flow classification and flow definition based on IP header information such as Source/Destination.
>Support Radius & TACACS+ authentication.	Support priority marking based on custom service flow, support 802.1P, DSCP priority Remark capability Support port-based priority scheduling function.	MAC address, address, L4 port number, protocol type, etc.
>Support MAC address learning limit, support black hole MAC function.		VLAN, 802.1p, ToS, DSCP, source/destination IP
>Support port isolation.	support queue scheduling algorithms such as SP/WRR/SP+WRR.	
>Support DOS attack and virus attack protection.		
>Support IP Source Guard Support ARP flood suppression and ARP spoofing protection.		
Layer 3	System Management	Temperature & Humidity
Support ARP learning and Aging.	CLI, Telnet, WEB, SNMP V1/V2/V3, SSH2.0	Working Temperature: -10°C ~ 55°C
Support Static Route.	Support FTP, TFTP file upload and download	Storage temperature: -40°C ~ 70°C
Support dynamic route	RMON, SNTP, 802.3ah Ethernet OAM, RFC 3164 Syslog, Ping and Traceroute, system work log	Operating humidity: 10% ~ 95% (non-condensing)
RIP/OSPF/BGP/ISIS	Support LLDP neighbor device discovery protocol	Storage humidity: 10% ~ 95% (non-condensing)
Support VRRP		
DHCP Server/DHCP Relay		

## Ordering Information

Item	Description
AGL08-DF/V2	8*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 DC+DC, with FAN

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