

ALPHA BRIDGE GPON ONT

AN4000/1/4/V/U



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

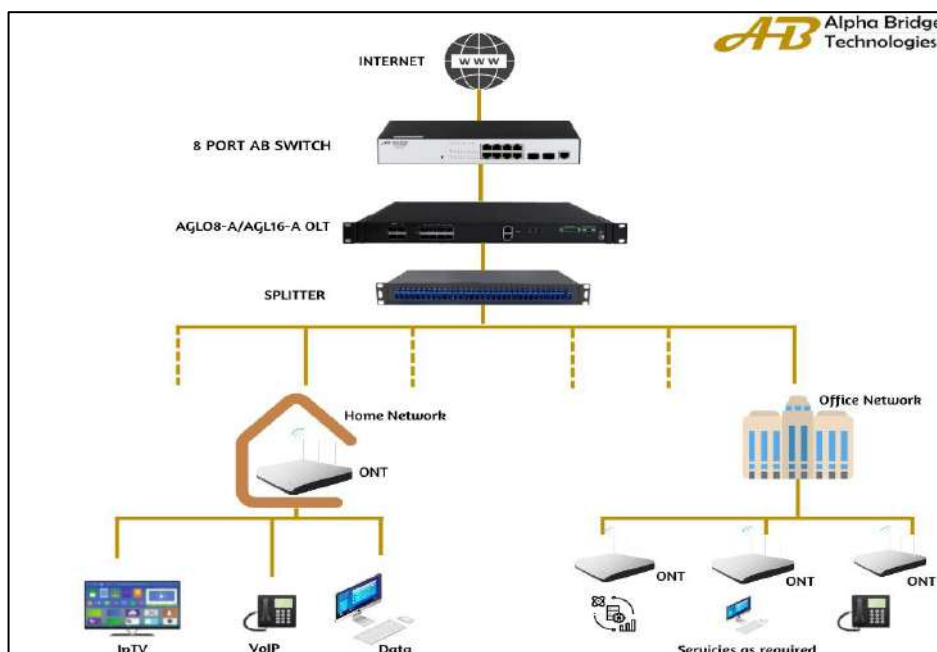
ABTPL's AN4000/1/4/V/U is a GPON optical terminal access device that is highly integrated with Single-frequency Wi-Fi4. It is the end-product of optical fiber for operators. It supports ultra-bandwidth access through GPON upstream technology and provides users with basic WIFI functions, routing, and gigabit Ethernet functions. The upstream network ports of the AN4000/1/4/V/U are GPON ports. The downstream user ports include four GE electrical ports, one USB port, one VOIP port and WiFi4 WLAN ports.

Interface function

- 1 * GPON interface: SC/UPC/APC interface, GPON standard
- 4 * Ethernet interface: 10/ 100/ 1000 Mbps, RJ - 45, IEEE802.3-2005 standard
- 1 * VOIP interface: in accordance with G. 711 a/u, G. 729 a/b, G. 722 standard
- 1 * USB interface: standard USB 3.0 interface
- Single-band WiFi4(2.4G 300Mbps)

Product Specifications

| Hardware Parameters | | Wifi 4 | |
|----------------------|--|------------------------|---|
| LED | POWER+PON/LOS+NET+LAN +POTS+WiFi+WPS+USB | WiFi protocol | 2.4GHz supports 802.11b/g/n |
| Port | 4*RJ45 (GE) | Transmit power | 2.4G 100mW, 5G/200mW |
| | 1*RJ11 (POTS) | Antenna gain | 5dBi |
| | 1*Reset+1*Power +1*LED button+1*WiFi Button +1*WPS | Antenna | Single-antenna MIMO (2.4G & 5G) |
| | 1*SC/UPC (or SC/APC) | WLAN penetrate | One reinforced concrete wall or two ordinary brick walls (non-reinforced concrete) |
| | 1*POTS | WLAN access capability | 32 client |
| | 1*DC | channel | 2.4GHz (channel 1-13) |
| | 1*USB 3.0 | WPS | WLAN terminal devices with WPS Push Button function establish connection within 2 minutes |
| Size | 190mm*135mm*33mm(L*W*H) | WLAN security function | WPA-PSK, WPA2-PSK, WPA3, WPA-PSK/WPA2-PSK AES, AES+TKIP |
| Consumption | ≤ 6W | | |
| Interface Parameters | | | |
| Ethernet Port | Ethernet port-based VLAN tags and tag removal, VLAN transparent and mark, MAC address learning, 10/100/1000Mbps Auto negotiation | | |
| VoIP Port | Call waiting, Unconditional Call Forward, Call Forward if Busy, Call Forward if no reply and Three-party calls. G711A/G711U/G729/G722 SDP protocol (RFC 2327 and RFC 4566) T.30/T.38/G.711 fax mode, DTMF | | |



Product Features

| GPON | QoS | Layer 2 Features |
|--|--|--|
| ITU-T G.984.1-4, 15 TCONTs /256GEM ports, 8 Egress queues per TCONT at least, VLAN/priority/VEIP gem mapping mode, SN/LOID/SN+ Password, authentication Performance, monitoring: eth/Gem port Dying gasp | Support 8 Queues with Strict Priority, Ethernet port rate limitation, 802.1p priority, SP/WRR, Service flow classification | MAC learning (SVL)/aging Support max frame length to 1518 bytes VLAN tagging for untagged packets Support VLAN 1-4094 VLAN transparent/translation |
| Layer 3 Features | Multicast | Management |
| PPPoE/Static IP/DHCP, NAT/NAPT, Port forwarding ALG, UPnP, DDNS, IPv6/IPv4 dual stack, and DS-Lite Static/Default routes, Multiple services on one WAN port, RIPv2 with passive mode | IGMP v2 (RFC 2236) and IGMP v3 (RFC 3376) IGMP snooping and IGMP, Proxy MLD v1/v2 | OMCI/Web UI/TR069, Telnet/SSH management with CLI commands Dual-system software backup and rollback |
| | | Environment |
| | | Storage Temperature: -20 °C - 70 °C Operating Temperature: 0°C~45°C Operating Humidity: 5%-95% (non-Condensing) Power Supply: 12V/1.5A |

Ordering Information

| Item | Description |
|----------------|--|
| AN4000/1/4/V/U | 4*RJ45 Ports, 1 RJ11 Port, 1*Reset+1*Power +1*LED button+1*WiFi button+1*WPS, 1*SC/UPC (or SC/APC), 1*USB 3.0, 1*DC, DC Power Supply: 12V/1.5A |

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