

GPON HGU ONT 4GE + 2 POTS + WiFi

AP224S Series

- ITU-T G.984 compliant
- 4 × auto-adapting GE ports
- 2 × POTS ports
- 802.11 b/g/n WiFi port
- Remote management
- Web-based GUI
- Supports SIP protocol
- FTTH, FTTB, FTTO, PON + EOC
- Broadband internet, VoIP, IPTV, VOD, IP camera, WiFi



AP224S GPON HGU ONT is a GPON optical network unit designed to meet the requirements of broadband access networks. It is ideal for FTTH/FTTO applications to provide data, voice, and video services based on a GPON network.

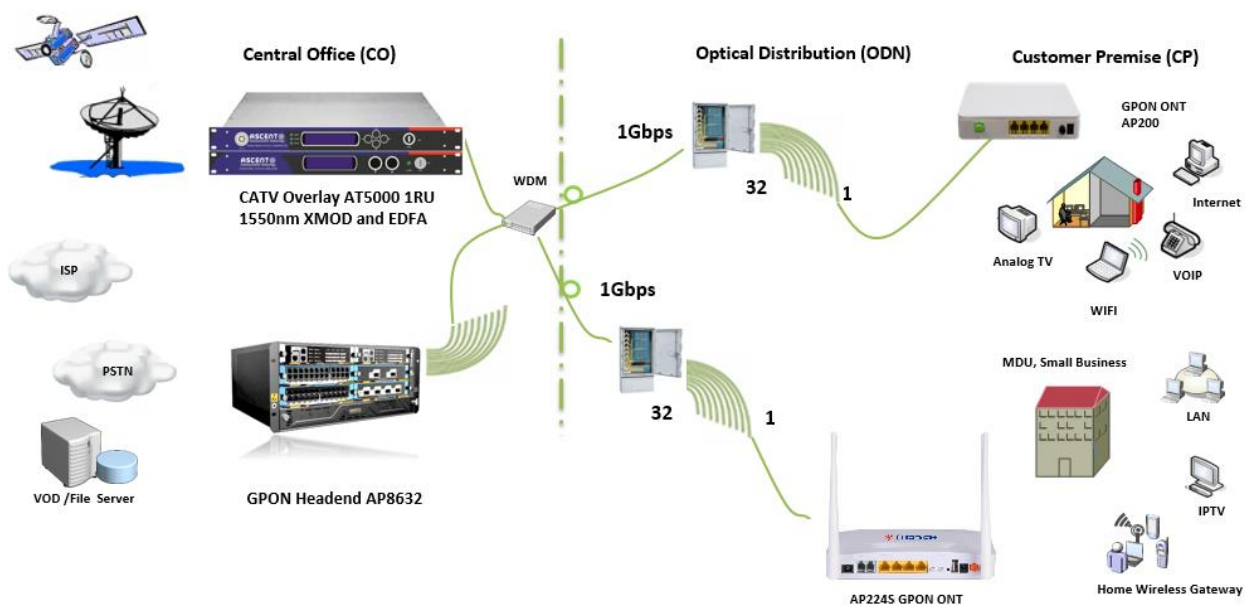
AP224S GPON ONT meets the ITU-T G.984 GPON standard and delivers higher bandwidth and higher efficiency using larger variable-length packets. It provides two POTS ports, four GE auto-adapting Ethernet ports, and 802.11 n/b/g Wi-Fi. It features high-performance forwarding capabilities to ensure an excellent experience with VoIP, internet, and HD video services. AP224S provides a perfect terminal solution and future-oriented service supporting capabilities for FTTH deployment.

AP224S offers efficient packaging of user traffic, with frame segmentation allowing higher quality of service (QoS) for delay-sensitive voice and video communications traffic. AP200C series GPON ONT provides the reliability and performance expected for business services and are an attractive way to deliver residential services. GPON enables Fiber to The Home (FTTH) deployments economically resulting to accelerated growth worldwide.

Key Features

- Fully compatible with ITU-T G.984
- Supports two POTS ports
- Supports four GE auto-adapting Ethernet ports
- 802.11 b/g/n WiFi
- Supports OMCI and TR069 for remote management
- Web-based GUI for local management
- Supports auto-negotiation
- Supports Ethernet interface rate, working mode, and flow control
- Supports performance statistics of Ethernet lines
- Supports PPPoE+ for accurate subscriber identification
- Supports SIP protocol
- Supports IGMP snooping
- Supports AES-128 encryption

Application Diagram



Specifications

Item	Description
Hardware Parameters	
Chipset	WiFi AC Model: BCM68380I + BCM4352 + BCM43217 WiFi B/G/N Model: BCM68380 series
PON	GPON: SC single-mode/single-fiber, downstream rate 2.488 Gbps, upstream rate 1.244 Gbps EPON: SC single-mode/single-fiber, symmetric 1.25 Gbps
Wavelength	Tx 1310nm, Rx 1490nm
Sensitivity	GPON: <-27 dBm (CLASS B+) EPON: <-27 dBm (PX20+)
Optical Type	SC/PC
Interface Type	4 × 10/100/1000 BASE-T Ethernet RJ45 ports. Auto-adaptive Ethernet interfaces, Full/Half Duplex 2 POTS, RJ11 connector 1 USB port in host mode
Wireless	WiFi AC Model: Compliant with 802.11ac 2T2R speed up to 780Mbps two external antenna, two internal antennas WiFi B/G/N Model: Compliant with IEEE802.11b/g/n, 300Mbps one external antenna, one internal antenna
Indicators	13, For POWER, PON , LOS, WAN, WiFi, Phone, Lan, Pair, USB
Physical Characteristics	
Power Adapter Input	220 V AC, 50 Hz
Power	12 V, 1 A / 1.5 A
Power Consumption	≤20 W
Operating Temperature	-5 °C to +45 °C
Operating Humidity	10 % to 95 % RH (non-condensing)
Storage Temperature	-40 °C to +60 °C
Storage Humidity	10 % to 95 % RH (non-condensing)
Dimensions (L × W × H)	185 mm × 135 mm × 45 mm
Weight	≤ 600 g
Software Parameters	
LAN	Supports port rate limiting Supports loop detection
VLAN	Supports VLAN tag mode Supports VLAN transparent mode Supports VLAN trunk mode Supports VLAN translation mode Supports VLAN QinQ mode
Multicast	Supports IGMPv1/v2/v3 Supports IGMP proxy and MLD proxy

QoS	Supports IGMP snooping and MLD snooping
	Supports 4 queues
	Supports SP and WRR
	Supports 802.1P
L3	Supports DSCP
	Supports IPv4, IPv6, and IPv4/IPv6 dual stack
	Supports DHCP/PPPOE/statics
	Supports static route
	Supports NAT
	Supports Bridge, Route, and Route and Bridge mixed mode
	Supports DMZ
	Supports DNS
	Supports ALG
	Supports UPnP
	Supports Virtual Server
DHCP	Supports DHCP Server
VOIP	Supports SIP protocol
	Supports voice coding: ITU-T G.711/G.723/G.726/G.729, auto-negotiate with call agent
	Supports echo cancellation exceeding ITU-T G.165/G.168-2002, up to 128 ms tail length
	Supports high/low speed fax/modem, bypass fax, and T38 fax
	Supports InBand/RFC2833/SIP INFO, MD5 authentication, call forwarding, call waiting, hot-line call, multi-party conferencing, and other value-added voice services
Wireless	Supports Line testing according to GR-909
	Supports 802.11b/g/n and mixed mode
	Supports 4 × SSIDs
	Supports No-auth, WEP, WPA-PSK and WPA2-PSK function with AES, TKIP encryption
Performance	Data loss: $<1 \times 10^{-12}$
	Call loss: $<0.01\%$
Security	Supports Firewall
	Supports Mac filter
	Supports ACL
	Supports URL filter
Management	Supports OMCI(ITU-T G.984.x)
	Supports WEB
	Supports TR069
	Supports TELNET
	Supports CLI

Ordering Information

Item	Description
AP204S-GE-00-0-S-2	AP200S GPON ONT 1x GE (1.25G US, 2.5G DS), 4xGE, Single Fiber, SC/PC, external power supply adapter
AP204S-GE-00-N-S-2	AP200S GPON ONT 1x GE (1.25G US, 2.5G DS), 4xGE, WIFI, Single Fiber, SC/PC, external power supply adapter
AP224S-GE-00-N-S-2	AP200S GPON ONT 1x GE (1.25G US, 2.5G DS), 4xGE, 2xVOIP, WIFI, Single Fiber, SC/PC, external power supply adapter
AP224S-GE-00-AC-S-2	AP200S GPON ONT 1x GE (1.25G US, 2.5G DS), 4xGE, 2xVOIP, WIFI B/G/N/AC, Single Fiber, SC/PC, external power supply adapter
AP224S-GE-TV-N-S-1	AP200S GPON ONT 1x GE (1.25G US, 2.5G DS), 4xGE, 2xVOIP, CATV RF, WIFI, Single Fiber, SC/APC, external power supply adapter

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Ver. ACT_AP224S_Datasheet_V2a_Oct_2016