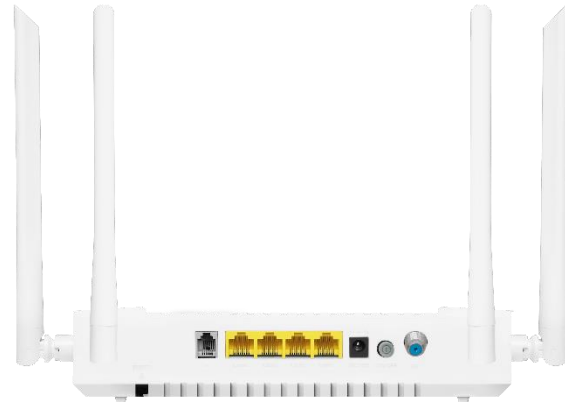


4GE+1POTS+CATV +Wi-Fi 6 AX1500 XPON ONU



AP214C Series

- **Compliant with IEEE802.3ah and ITU - T G.984 standard**
- **Port VLAN configuration**
- **Broadcasting storm resistance function**
- **Dynamic Bandwidth Allocation(DBA)**
- **EMS network management based on SNMP ,convenient for maintenance**

The AP214C Series AX1500 XPON ONU is a carrier-grade fiber broadband gateway designed to deliver quad-play services including high-speed Internet, Voice, CATV, and Wi-Fi 6 connectivity over a single fiber connection. Integrating dual-mode GPON/EPON technology, four Gigabit Ethernet ports, one POTS voice interface, CATV RF output, and dual-band AX1500 Wi-Fi 6, the AP214C provides a complete FTTH solution for residential, hospitality, and multi-service broadband deployments. The ONU automatically adapts to GPON or EPON networks and offers seamless interoperability with mainstream OLT platforms.

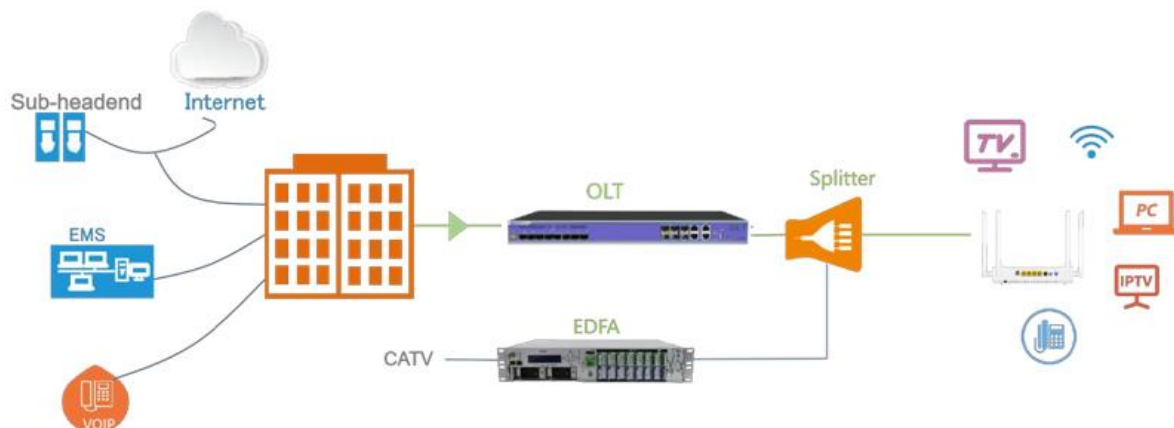
The AP214C combines high-speed broadband access, SIP-based VoIP services, CATV distribution, and next-generation wireless networking within a single compact device. Equipped with one XPON optical interface, four Gigabit Ethernet ports, one FXS voice port, and an integrated CATV optical receiver supporting 1550nm input, the ONU enables operators to efficiently deliver broadband, IPTV, voice, and television services. Advanced features including Dynamic Bandwidth Allocation (DBA), VLAN management, QoS, IGMP Snooping/Proxy, AES encryption, EasyMesh support, and firewall protection ensure optimized network performance, enhanced security, and superior user experience.

Designed for carrier-grade reliability and simplified network operation, the AP214C supports ONU auto-discovery, remote software upgrades, SNMP-based management, CATV remote control, and multiple authentication methods including SN and LOID+Password. Its integrated service architecture, low power consumption, and AX1500 Wi-Fi 6 performance make it an ideal solution for operators seeking to deliver converged voice, video, broadband, and wireless services through a single customer premises device.

Key Features

- Compliant with IEEE802.3ah and ITU - T G.984 standard
- Support ONU auto-discovery/Link detection/remote upgrade of software
- Support SN and LOID+Password multiple registration methods
- Support port VLAN configuration
- Support port-based rate limitation and bandwidth control
- Support MAC address learning
- Support MAC address learning account limit
- Support VLAN transparent/tag/translate/trunk
- Support remote CATV port management
- Support broadcasting storm resistance function
- Support igmp transparent/snooping/proxy mode
- Support Dynamic Bandwidth Allocation(DBA)
- Support AES encryption and decryption
- Support Easymesh
- EMS network management based on SNMP, convenient for maintenance
- Support power-off alarm function, easy for link problem detection
- Support Firewall
- Support MAC address/URL filter
- Support remote WEB/Telnet access control

Application Diagram



Specifications

Parameter	Description
Hardware	
User Port(LAN)	RJ-45 connector 4*10/100/1000Mbps adaptive Ethernet port Full/Half Duplex Auto MDI/MDI-X
Indicators	
PON Port	PON Mode EPON: 1000BASE-PX20+ symmetric GPON: FSAN G.984.2 standard, Class B+
	Port Rate EPON: 1.25Gbps downstream/upstream GPON: 2.488Gbps/1.244Gbps downstream/upstream
	Wavelength Transmit: 1310nm Receiver: 1490nm
	Receiving Sensitivity EPON: -27dBm GPON: -28dBm
	Saturation Power EPON: -3dBm GPON: -8dBm
	Transmitting Power EPON: 0 to 4dBm GPON: 0.5 to 5dBm
Power	
Adapter	External 12VDC/1.5A power supply adapter
Power Consumption	≤12.5W
Environment	
Working Temperature	0°C to 40°C
Operating Humidity	10 to 90%(Non-condensing)
CATV(Input /Output port)	
Wavelength	1550nm
Input Optical Power	-18dBm to 0dBm(with AGC)
RF Frequency	47MHz to 1000MHz
RF Output Level	78dBuV (@-12 to -2dBm@85MHz) (with AGC)
RF Output Return Loss	>12dB(with AGC)
RF Impedance	75Ω
User Port(POTS)	
Port	RJ-11 connector 1 x FXS Voice Port SIP protocol DTMF G711U/G711A/G729/G722 encoding and decoding
WIFI Performance	
WIFI	IEEE802.11b/g/n(2.4G), IEEE802.11a/n/ac/ax(5G)
Max Rate	40Mhz bandwidth maximum rate 300M(2.4G) 80Mhz bandwidth maximum rate 867Mbps(5G) Total wireless rate is 1500Mbps
MAX TX Power	EIRP:24dBm(2.4G)/EIRP:22dBm(5G)
Mechanics	
Dimensions	210mm(L) x 135mm(W) x 45mm(H)
Weight	About 300g

Ordering Information

Product Name

AP214C-GE-TV-X-S-2

Product Description

AP200C GPON CPE 1xPON(1.25G US, 2.5G DS), 4xGE, 1POTS, CATV, WIFI b/g/n/ax, Single Fiber, SC/PC, PS included

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