AP 1504HW

AP1504HW GEPON ONU Built-in WiFi

- Support port-based rate limitation and bandwidth control
- In compliant with IEEE802.3ah Standard
- Up to 20KM transmission Distance
- Support Dynamic Bandwidth Allocation (DBA)
- Support ONU auto-discovery/Link detection/remote upgrade of software
- Support VLAN division and user separation to avoid broadcast storm
- Support power-off alarm function ,easy for link problem detection
- Support broadcasting storm resistance function
- Support port isolation between different ports
- Support ACL and SNMP to configure data packet filter flexibly
- Support software online upgrading EMS network management based on SNMP, convenient for maintenance

Air Pro

OVERVIEW

GEPON ONU 1504HW is mainly designed for FTTH, FTTO application. EPON ONU support 1000Base-PX20 standard with 1:64 maximum optical splitting ratio and 20km distance, and provide 1uplink GE PON port. ONU 1504HW work together with AirPro OLT could realize flexible network structure and maintenance and provide total FTTx solutions. ONU AP1504HW has 1 PON port, 4 10/100BASE-T ports and support WiFi.

KEY FEATURES

• Support port-based rate limitation and bandwidth control.

• In compliant with IEEE802.3ah Standard.

• Up to 20KM transmission Distance.

• Support Dynamic Bandwidth Allocation (DBA).

• Support ONU auto-discovery/Link detection/remote upgrade of software.

• Support VLAN division and user separation to avoid broadcast storm.

• Support power-off alarm function ,easy for link problem detection.

• Support broadcasting storm resistance function.

• Support port isolation between different ports.

• Support ACL and SNMP to configure data packet filter flexibly.

• Support software online upgrading.

• EMS network management based on SNMP, convenient for maintenance.

TECHNICAL SPECIFICATIONS

Items	Parameter
PON Interface	1 EPON optical interface Meet 1000BASE-PX20+ standard Symmetric 1.25Gbps upstream/downstream SC single-mode fiber split ratio: 1:64 Transmission distance 20KM
User Ethernet Interface	4*10/100Mauto-negotiation Full/half duplex mode RJ45 connector Auto MDI/MDI-X 100m distance
Power Interface	12V DC Power supply An external 12V 0.5A AC/DC power supply adapter
PON Optical Parameter	Wavelength: Tx 1310nm, Rx1490nm Tx Optical Power: -1 ~ 4dBm Rx Sensitivity: -27dBm Saturation Optical Power: -3dBm Connector Type: SC Optical Fiber: 9/125цm single-mode fiber
Data Transmission Parameter	PON Throughput: Downstream 950Mbps; Upstream 930Mbps Ethernet: 100Mbps Packet Loss Ratio: <1*10E-12 latency: <1.5ms

TECHNICAL SPECIFICATIONS

Items	Parameter
Business Capability	Layer 2 wire speed switching Support VLAN TAG/UNTAG，VLAN conversion Support Port-based speed limitation Support Priority classification Support storm control of broadcast Support loop detection
Network Management	Support IEEE802.3 QAM, ONU can be remotely managed by OLT Support Remote management through SNMP and Telnet Local management
Management Function	Status monitor, Configuration management, Alarm management, Log management
LED Indicator	PWR: Power up or down OPTIN: Optical Link Status LINK：ONU Registered ETH: Link Status of Ethernet Interface LAN:Link Status of Ethernet Interface WIFI: WIFI status
Shell	Plastic casing
Power	External 12V 0.5A AC/DC power supply adapter Power consumption: <4W
Physical Specifications	Item Dimension : 160mm(L) x 120mm(W) x 32.5mm (H) Item weight : 0.2kg
Environmental Specifications	Operating temperature: 0 to 50ºC Storage temperature: -40 to 85ºC Operating humidity: 10% to 90%(Non-condensing) Storage humidity: 10% to 90%(Non-condensing)

WIFI SPECIFICATION

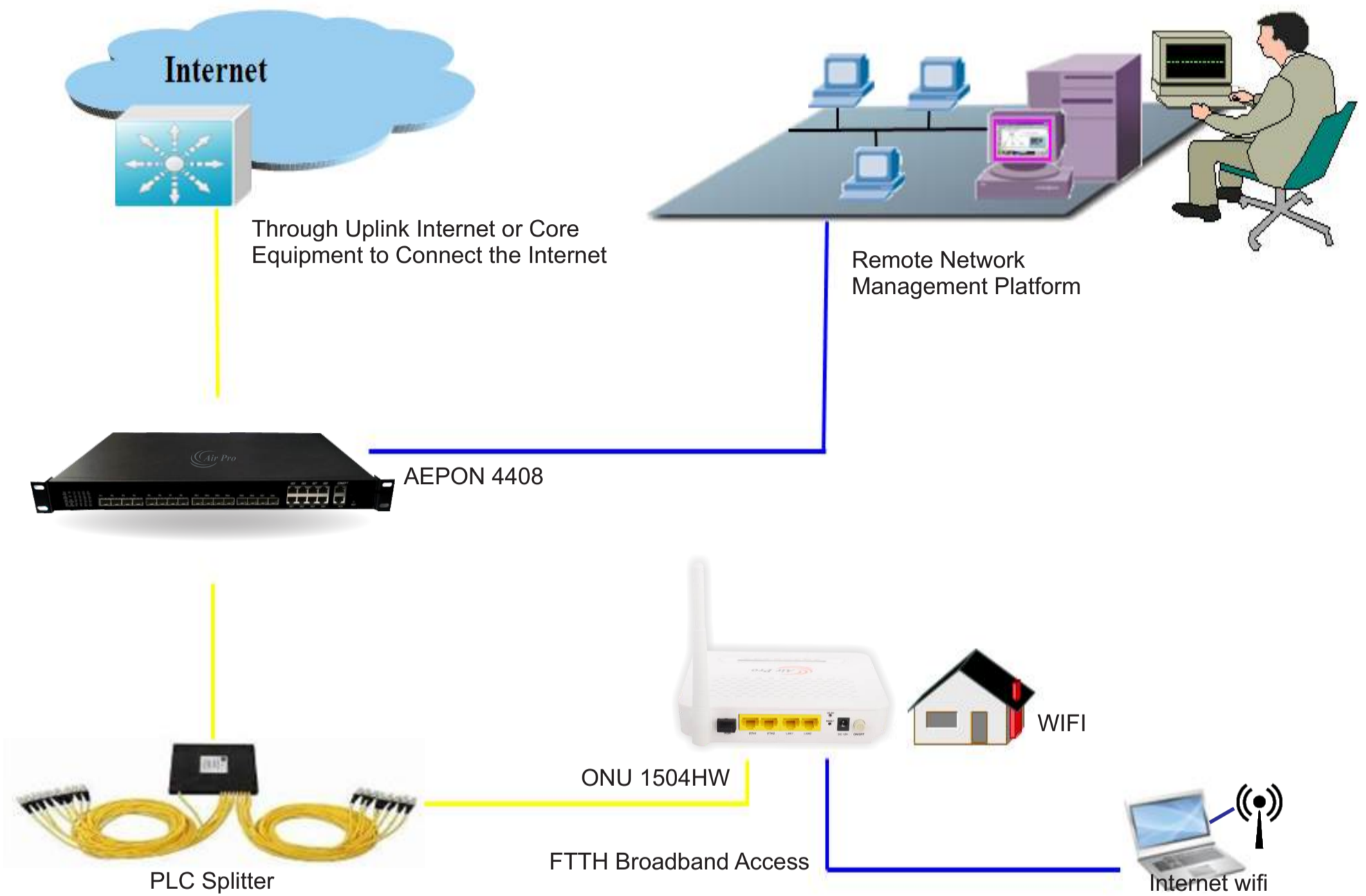| Items	Parameter
Operating Mode	Router or bridge
Throughput	• IEEE 802.11b: 11Mbps • IEEE 802.11g: 54 Mbps • IEEE 802.11n: 135Mbps
Frequency	2.412 ~ 2.472 Ghz
Channel	13*Channel, configurable to meet the standard of USA, Canada, Japan and China
Modulation	DSSS , CCK and OFDM
Coding	BPSK, QPSK, 16QAM and 64QAM
RF receive sensitivity	802.11b: -82dBm @ 1 Mbps; -80dBm @ 2 Mbps; -78dBm @ 5.5 Mbps; -76dBm @ 11 Mbps 802.11g: -82dBm @ 6 Mbps; -81dBm @ 9 Mbps; -79dBm @ 12 Mbps; -77dBm @ 18 Mbps; -74dBm @ 24 Mbps; -70dBm @ 36 Mbps; -66dBm @ 48 Mbps; -65dBm @ 54 Mbps
RF output lever	802.11b: 16.5 ±1dBm 802.11g: 13 ± 1dBm @ 54 Mbps; 14 ± 1dBm @ 48 Mbps; 15 ± 1dBm @ 6 ~ 36 Mbps 802.11n: 13 ± 1dBm @ 54 Mbps; 14 ± 1dBm @ 48 Mbps; 15 ± 1dBm @ 6 ~ 36 Mbps
Encryption Mode	802.11i security: WEP-64/128, TKIP (WPA-PSK) and AES (WPA2-PSK)

ORDERING INFORMATION

Product Name	Product Model	Description
ONU With Four Fast Ethernet Port and Built-in WiFi	AP1504HW	4*10/100M Ethernet interface, built-in WiFi, 1 EPON interface, plastic casing, external power supply adapter

AP1504HW GEPON ONU Built-in Wifi

Typical Solution：FTTH, FTTO, PON+EOC

Typical Business：INTERNET, IPTV, VOD, IP Camera, WIFI

Internet

Through Uplink Internet or Core
Equipment to Connect the Internet

Remote Network
Management Platform

AEPON 4408

ONU 1504HW

WIFI

FTTH Broadband Access

Internet wifi

PLC Splitter

Air Pro

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