Datasheet

AP 1404 FC-HW

AP1404-FC-HW - 4 Port FE+1CATV+WIFI ONU

- In compliant with IEEE802.3ah Standard and CTC2.1/3.0
- Up to 20KM transmission Distance
- Support VLAN and IGMP
- Support port isolation between different ports
- Integrated OAM remote configuration and maintenance function

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OVERVIEW

AP1404FC-HW ONU is mainly designed for FTTH, FTTO application. It supports 1000Base-PX20 standard with 1:64 maximum optical splitting ratio and 20km distance, and provide 1uplink GE PON port. It work together with OLT could realize flexible network structure and maintenance and provide total FTTx solutions. It built in CATV Receiver to realize the analog or DVB TV signals transmission. It adopts single fiber WDM technology with downlink wavelength 1550nm and 1490nm, uplink wavelength 1310nm . It only needs one-core fiber to transmit data and CATV service. ONU AP1404FC-HW has 1 PON port, four10/100BASE-T ports, one CATV output and support Wi-Fi.

KEY FEATURES

- In compliant with IEEE802.3ah Standard and CTC2.1/3.0
- Up to 20KM transmission Distance • Support VLAN and IGMP
- Support port isolation between different ports
- Integrated OAM remote configuration and maintenance function
- Plug and play, integrated auto detecting, auto configuration, and auto firmware upgrade technology
- EMS network management based on SNMP, convenient for maintenance
- Full speed non-blocking switching. • Support Q in Q VLAN, VLAN tag, VLAN trunk, etc.
- Integrated port monitoring, port mirroring, port rate limiting, port SLA, etc.
- Support auto polarity detection of Ethernet ports (AUTO MDIX).
- Integrated IEEE802.1p QoS with four level priority queues.
- Support IPv4 IGMP snooping and IPv6 MLD snooping.

CATV Service Functions

- Turn on/off RF output remotely
- Wavelength：1550 +/- 10nm
- Optical return loss : >45dB
- Input optical power : -15dBm～+0dBm
- RF frequency : 47MHz~1000MHz
- RF output lever : 84dBuV (@-5dBm@85MHz)
- CNR : >47dB (@-5dBm @ Ds22 Channel)
- CSO: >60dBc (@-5dBm @ Ds22 Channel)
- CTB: >60dBc (@-5dBm @ Ds22 Channel)
- RF output return loss : >14dB
- RF impedance：75Ohm

TECHNICAL SPECIFICATIONS

Interface	
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 Interface	4*10/100Mauto-negotiation Full/half duplex mode RJ45 connector Auto MDI/MDI-X 100m distance 1 RF output Female F-Type Connector
Power Interface	12V DC Power supply

Model No. AP1404-FC-HW AP1404-FC-HW : 4 Port FE+1CATV+WIFI ONU

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TECHNICAL SPECIFICATIONS

Performance Parameteres	
PON Optical Parameter	Wavelength: Tx 1310nm, Rx1490nm Tx Optical Power: -1 ~ 4dBm Rx Sensitivity: -27dBm Saturation Optical Power: -3dBm Connector Type: SC Optical Fiber: 9/125μm single-mode fiber
Data Transmission	PON Throughput: Downstream 950Mbps; Upstream 930Mbps
Parameter	Ethernet: 100Mbps Packet Loss Ratio: <1*10E-12 Latency: <1.5ms
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 link detection

Network Management	
Management Mode	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	
LEDS	PWR, SYS, PON, LAN1~LAN4, CATV, WIFI

Environment Specifications	
Shell	Plastic casing
Power	External 12V 1A AC/DC power supply adapter Power consumption: <5.5W
Dimensions and weight	Item Dimension : 200mm(L) x 140mm(W) x33mm (H) Item Weight : 0.4kg
Environment Speifications	Operating Temperature：0 ~ 50% StorageTemperature：-40 ~ 85% Operating Humidity：10% ~ 90%(Non-condensing) StorageHumidity：10% ~ 90%(Non-condensing)

WIFI SPECIFICATION

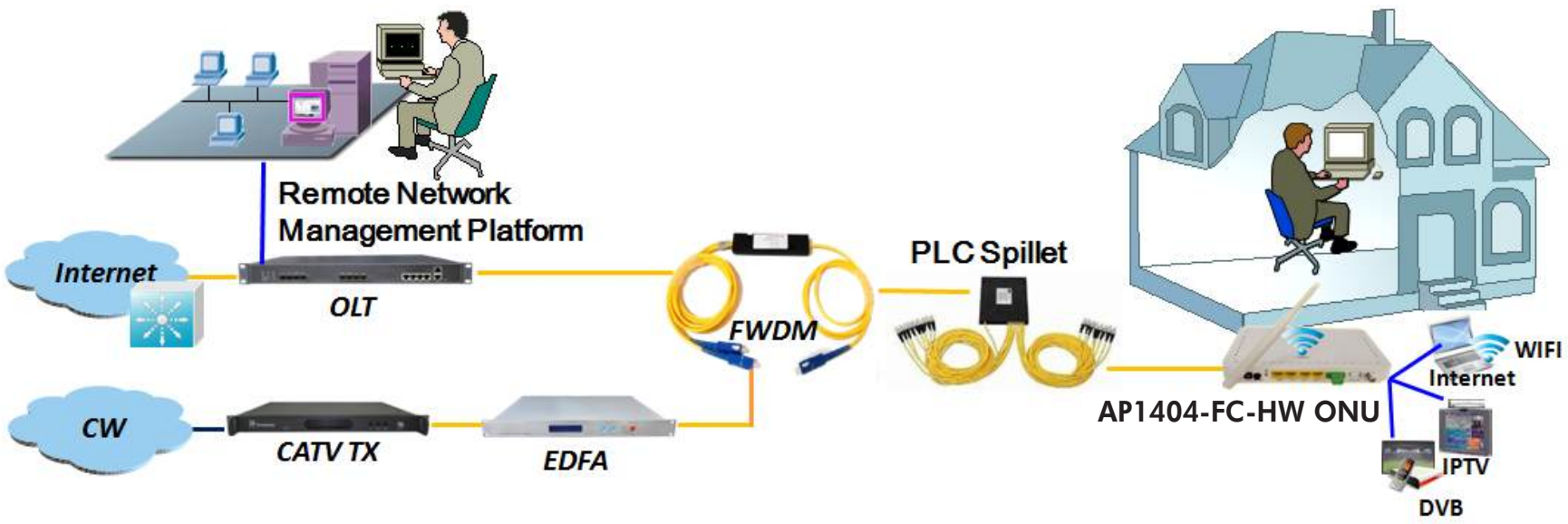
Performance Parameters	
Throughput	IEEE 802.11b: 11Mbps IEEE 802.11g: 54 Mbps IEEE 802.11n: 135Mbps
Frequency	2.412 ~ 2.472 Ghz
Channel	13*Channel, configurable to meet the standard of USA, Canada, Japan and China
Modulation	DSSS , CCK and OFDM
Coding	BPSK, QPSK, 16QAM and 64QAM
RF Receive Sensitivity	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)

APPLICATION

Typical Solution : FTTH, FTTO, PON+EOC

Typical Business : Internet, CATV, IPTV, VOD, IP Camera, WIFI

NETWORK CONSTRUCTION



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