

HA404WT 1GE+3FE+CATV+WiFi ONU (single-fiber)



Overview

HA404WT is mainly designed for FTTH, FTTO application. It supplies 1 PON port, one 10/100/1000M RJ45 port, three 10/100Base-TX ports, one CATV RF output port and support WIFI.

It works together with OLT to establish a flexible network, there is a CATV Receiver built in to realize the analog or DVB TV signals transmission.

It adopts single fiber WDM technology with downlink wavelength 1550nm and 1490nm, uplink wavelength 1310nm for transmission. It only needs one-core fiber to transmit data and CATV service.

DATA Service Function

- 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
- Full speed non-blocking switching.
- Support QinQ VLAN, 1:1 VLAN, VLAN reusing, 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

Technical Specification

Parameter		Specification
Interface	PON Interface	1 GEAPON optical interface Meet 1000BASE-PX20 standard Symmetric 1.25Gbps upstream/downstream SC single-mode fiber split ratio: 1:64 Transmission distance 20KM
	User Interface	1*10/100/1000M RJ45, 3*10/100M auto-negotiation Full/half duplex mode, RJ45 connector Auto MDI/MDI-X,100m distance
		1 RF output, Female F-Type Connector
Power	12V DC Power supply An external 12V 1A AC/DC power supply adapter	
Performance Parameters	PON port	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	PON Throughput: Downstream 950Mbps; Upstream 930Mbps Ethernet: 100Mbps Packet Loss Ratio: <1*10E-12 latency: <1.5ms
		Layer 2 wire speed switching Support VLAN TAG/UNTAG, VLAN conversion

	Business Capability	Support Port-based speed limitation Support Priority classification Support storm control of broadcast Support link 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
Indicator	LEDr	PWR, SYS,PON, LAN1~LAN4, CATV,WIFI
Physical Features	Shell	Plastic casing
	Power	External 12V 1A AC/DC power supply adapter Power consumption: < 5.5W
	Dimension Weight	Item Dimension:200mm(L) x 140mm(W) x 33mm (H) Item weight:0.35kg
	Environment	Operating temperature: 0 to 50 oC Storage temperature: -40 to 85 oC Operating humidity: 10% to 90% (Non-condensing) Storage humidity: 5% to 95% (Non-condensing)
WIFI SPECIFICATION		
Performance parameters	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, CCanada, 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: 802.11g: 802.11n:
	Encryption Mode	802.11i security: WEP-64/128, TKIP (WPA-PSK) and AES (WPA2-PSK)