

## GPON ONT/ONU

GPON ONT product is the terminal equipment of a series of GPON which comply fully with ITU-G.984.1/2/3/4 standard and meet the energy-saving of G.987.3 protocol, it is based on mature and stable, and high cost-effective GPON technology which adopts high-performance xPON ZTE chipset and has high reliability ,easy management ,flexible configuration ,robustness ,good quality service guarantee(Qos).

It supports WIFI4 (IEEE802.11b/g/n) and WIFI5 (IEEE802.11ac) concurrently, a WEB system provided simplifies the configuration of the WIFI and connects to INTERNET conveniently for users.

At the same time, the ONU supports two pots for VOIP application and 1 RF for CATV function



## FEATURES

- Comply fully with ITU-G.984.1/2/3/4 standard and G.987.3 protocol
- Support downlink 2488 Gbits/s rate and uplink 1.244 Gbits/s rate
- Support bidirectional FEC and RS(255,239) FEC CODEC
- Support 32 TCONT and 256 GEMPORT
- Support AES128 decryption function of G.984 standard
- Support SBA and DBA dynamically broadband allocation
- Support the PLOAM function of G.984 standard
- Support Dying-Gasp check and report
- Support synchronous Ethernet
- Good interworking with the OLT from different manufacturers, such as HuaWei ,ZTE,Cortina etc
- Down-link LAN ports: 4\*10/100/1000M with auto-negotiation
- Support the rogue ONU alarm function
- Support VLAN function
- Operation mode: HGU
- Support IEEE802.11b/g/n and IEEE802.11ac standard for WIFI
- Antennas gain: 5DBi with external
- Support: 300Mbps PHY rate IEEE802.11b/g/n, 866Mbps PHY rate IEEE802.11ac
- Support multiply SSID
- Multiple encryption methods:WPA,WPA2,WAPI
- Two port for VOIP, support H.248 ,SIP protocol optional

## SPECIFICATIONS

Interface	
Uplink interface	1 GPON interface, SC single mode single fiber RX 2.488 Gbits/s rate and TX 1.244 Gbits/s rate
	Fiber type : SC/APC
	Optical power : 0~4 dBm Sensitivity : -28 dBm
	safety: ONU authentication mechanism
Wavelength(nm)	TX 1310nm, RX 1490nm
Fiber connector	SC/APC connector
Down-link data interface	4*10/100/1000M auto-negotiation Ethernet interface, RJ45 interface
DC supply interface	Input + 12V 1A, footprint : DC0005 ø2.1MM
Power	≤5W
Operating temperature	-5~+55℃
Humidity	10 ~ 85% (non-condensation)
Storage temperature	-30~ +70℃
Dimension(mm)	185*125*32mm (mainframe)
Weight	0.5Kg (mainframe)

WIFI	
Antenna	2T2R Mode; 5DBI Gain ,Frequency: 2.4G
Rate	300Mbps PHY rate, WPS
Encryption methods	WFA, WPA, WPA2, WAPI
VOIP	
Voltage and Current Monitoring	The ONT continuously monitors the TIP, RING, and battery voltages and currents via an on-chip Monitor ADC
Power Monitoring and Power Fault Detection	The ONT monitoring functions are used to continuously protect against excessive power conditions
Thermal Overload Shutdown	If the die temperature exceeds the maximum junction temperature threshold, the device will shut itself down
CATV	
Optical wavelength	1540~1560nm(Single Fiber, internal PWD component)
Optical input range	0~-15 DBm
Optical return loss	≥45 DB
Bandwidth	45~1000 MHz
Flatness	± 1 DB
RF output level	≥72 dBuv
AGC control range	0~-14 DBm
RF Output return loss	≥14 DB
Output impedance	75Ω
CNR	≥50 DB
CTB	≥60 DB
CSO	≥60 DB

## ORDERING INFORMATION

PN	DESCRIPTION
LGPONU-4R-WF-2P	GPON ONU with 4x GE Ethernet ports, WIFI & 2x POTS
LGPONU-4R-WF-2P-CA	GPON ONU with 4x GE Ethernet ports, WIFI, 2x POTS & CATV