G8301C 4GE AC1200 XPON HGU

Descriptions

The G8301C dual-mode ONU optical interface supports EPON and GPON access. The ONU automatically recognizes the central office OLT mode (GPON or EPON) and activates the corresponding PON mode, thereby completing GPON or EPON adaptive access.

G8301C is a dual-mode ONU designed to meet the needs of telecom and radio and television operators for FTTH fiber-to-home multi-service reception. This product integrates Gigabit Ethernet through mature, stable and cost-effective Gigabit XPON technology Switching technology, WDM technology, HFC technology, have the charac teristics of high bandwidth, high reliability, easy management and good quality of service (QoS) guarantee. The functions and performance indicators of the equipment meet ITU-T, IEEE related recommendations, relevant international standards and technical specifications of industry standards, and have good compatibility when used with mainstream manufacturers'central office OLTs..

Features

- EPON&GPON mode adaptive;
- GPON WAN port with 1.244Gbps uplink / 2.488Gbps downlink link;
- 4x 10/100/1000BASE-T Ethernet RJ45 Ports;
- 1x CATV;
- 1x POTS;
- 2x USB;
- Support 802.11b/g/n speed up to 300Mbps;
- Support 802.11a/b/g/n/ac speed up to 867Mbps;

Specifications

G8301C Specifications	
Chip model	RTL9607+RTL8192+RTL8812
Memory	DDR3：256MB / FLASH 128MB
WiFi Chip	2.4G&5G: RTL8192+RTL8812
GPON Protocol Specification	Comply ITU-T G.984 GPON standard: G.984.1 general characteristics G.984.2 physical Media Dependent (PMD) layer specifications G.984.3 transmission convergence layer specifications G.984.4 ONT management and control interface specification Support DS/US transmission rate to 2.488 Gbps/1.244 Gbps Wavelength: 1490 nm downstream & 1310 nm upstream Comply with class B+ type PMD Physical distance reach to 20 km Support Dynamic Bandwidth Allocation (DBA) GPON Encapsulation Method (GEM) supports Ethernet packet Supports GEM header removal/insertion and data extraction/segmentation (GEM SAR)
Network Protocol Specifications	802.3 10/100/1000 Base T Ethernet ANSI/IEEE 802.3 NWay auto-negotiation 802.1Q VLAN tagging/un-tagging Support flexible traffic classification Support VLAN staking Support VLAN Intelligent Bridging

Interface	WAN: One Giga optical interface (APC or UPC) LAN: 4*10/100/1000 RJ-45 ports Voip: 1*RJ-11 port USB: 2*USB CATV: 1*CATV
LED Indicators	Power, PON, LOS, 5G, 2.4G, LAN1-4, FXS, WPS, USB-1, USB-2, CATV
WiFi Rate	2.4G: 802.11b/g/n speed up to 300Mbps 5G: 802.11a/b/g/n/ac speed up to 867Mbps
Buttons	Power/WPS/WLAN/Reset
Antennas	2*5dBi external antenna (dual band antenna)
Power Supply	DC12V/1.5A
Product Size	156*130*186mm (length X width X height)
Work Environment	Working temperature: 0°C—40°C Working humidity: 10% ~ 95%, no condensation
Security	WPA/WPA2/WPA3 Firewall, Dos Protection
WAN Networking	Static IP WAN connection DHCP client WAN connection PPPoE WAN connection
VOIP	G.711A/μ, G.729, and G.722 encoding/decoding T.30/T.38/G.711 fax mode
CATV	Wavelength: 1100~1600nm Input optical power: -15dBm~0dBm RF frequency: 47MHz~1000M Hz RF output level: 80dBuV RF output return loss: >14dB RF impedance: 75ohms
Management	Standard OMCI (G.984.4) Web GUI (HTTP/HTTPS) Firmware upgrade via FTP/TFTP/HTTP Telnet, Web, SSH CLI command via telnet/console Configuration backup/restore TR069

Applications