

# G8301 4GE AC1200 XPON HGU



## Descriptions

The G8301 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.

G8301 is a dual-mode ONU designed to meet the needs of telecom and radio and television operators for ITTH 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 characteristics 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 POTS;
- 2x USB;
- Support 802.11b/g/n speed up to 300Mbps;
- Support 802.11a/b/g/n/ac speed up to 867Mbps;

# Specifications

G8301 Specifications	
Chip model	RTL9607+RTL8192+RTL8812
Memory	DDR3: 256MB / FLASH 128MB
WiFi Chip	2.4G&5G: RTL8192+RTL8812
GPON Protocol Specification	<p>Comply ITU-T G.984 GPON standard:</p> <p>G.984.1 general characteristics</p> <p>G.984.2 physical Media Dependent (PMD) layer specifications</p> <p>G.984.3 transmission convergence layer specifications</p> <p>G.984.4 ONT management and control interface specification</p> <p>Support DS/US transmission rate to 2.488 Gbps/1.244 Gbps</p> <p>Wavelength: 1490 nm downstream &amp; 1310 nm upstream</p> <p>Comply with class B+ type PMD</p> <p>Physical distance reach to 20 km</p> <p>Support Dynamic Bandwidth Allocation (DBA)</p> <p>GPON Encapsulation Method (GEM) supports Ethernet packet</p> <p>Supports GEM header removal/insertion and data extraction/segmentation (GEM SAR)</p>
Network Protocol Specifications	<p>802.3 10/100/1000 Base T Ethernet</p> <p>ANSI/IEEE 802.3 NWay auto-negotiation</p> <p>802.1Q VLAN tagging/un-tagging</p> <p>Support flexible traffic classification</p> <p>Support VLAN staking</p> <p>Support VLAN Intelligent Bridging</p>

Interface	<p>WAN: One Giga optical interface (APC or UPC)</p> <p>LAN: 4*10/100/1000 RJ-45 ports</p> <p>Voip: 1*RJ-11 port</p> <p>USB: 2*USB</p>
LED Indicators	Power, PON, LOS, 5G, 2.4G, LAN1-4, FXS, WPS, USB-1, USB-2
WiFi Rate	<p>2.4G: 802.11b/g/n speed up to 300Mbps</p> <p>5G: 802.11a/b/g/n/ac speed up to 867Mbps</p>
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	<p>Working temperature: 0°C—40°C</p> <p>Working humidity: 10% ~ 95%, no condensation</p>
Security	<p>WPA/WPA2/WPA3</p> <p>Firewall, Dos Protection</p>
WAN Networking	<p>Static IP WAN connection</p> <p>DHCP client WAN connection</p> <p>PPPoE WAN connection</p>
VOIP	<p>G.711A/μ, G.729, and G.722 encoding/decoding</p> <p>T.30/T.38/G.711 fax mode</p>
Management	<p>Standard OMCI (G.984.4)</p> <p>Web GUI (HTTP/HTTPS)</p> <p>Firmware upgrade via FTP/TFTP/HTTP</p> <p>Telnet, Web, SSH</p> <p>CLI command via telnet/console</p> <p>Configuration backup/restore</p> <p>TR069</p>

# Applications

