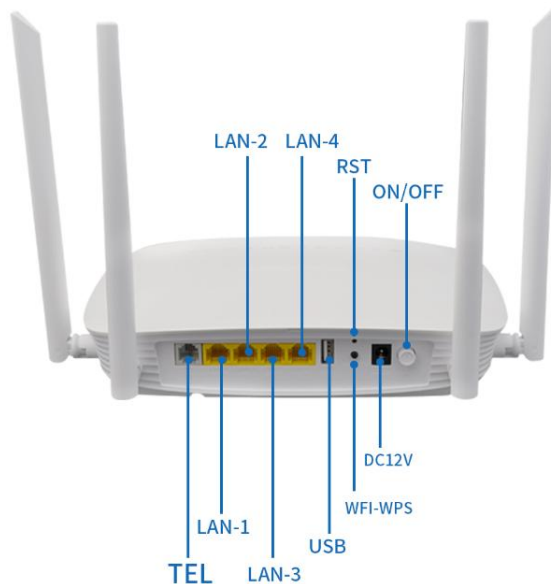


# G8503 4GE AX3000 XPON HGU



## Descriptions

G8503 XPON ONT is a new terminal level GPON ONT, EPON&GPON mode adaptive, It can support pure data, WIFI and many other services accessing type. G8503 ONT supports standard OMCI, which provides up to 1.25Gbps uplink and 2.5Gbps downlink high-speed transfer rate. G8503 is a WiFi 6 XPON ONT, It supports 802.11ax, 2.4G & 5G dual-band transmission rate up to 3000Mbps. G8503 Easymesh system keeps you connected as you roam seamlessly from room to room without ever dropping your WiFi signal.

## Features

- GPON WAN port with 1.244Gbps uplink / 2.488Gbps downlink link,EPON&GPON mode adaptive;
- 4x 10/100/1000BASE-T Ethernet RJ45 Ports;
- 1x POTS;
- 1x USB;
- Support 802.11n/ax speed up to 574Mbps;
- Support 802.11ac/ax speed up to 2400Mbps;
- Support Easymesh;

# Specifications

G8503 Specifications	
CPU	Dual Core A9 1GHz
Chip model	ZX279128S
Memory	DDR: 512MB / FLASH 256MB
WiFi Chip	2.4G&5G: MTK7916+MTK7976
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), EPON&amp;GPON adaptive</p> <p>LAN: 4*10/100/1000 RJ-45 ports</p> <p>Voip: 1*RJ-11 port</p> <p>USB: 1*USB</p>
LED Indicators	Power, PON, LOS, Internet, LAN4-1, WLAN, WPS, USB, POTS
WiFi Rate	<p>2.4G: 802.11n/ax with 574Mbps</p> <p>5G: 802.11ac/ax with 2400Mbps</p>
Frequency Band	2.4 GHz frequency band 40MHz and 5.8 GHz frequency band 160MHz
Buttons	Power/WPS/WLAN/Reset
Antennas	<p>1*2.4G 5dBi External antennas</p> <p>2*5G 5dBi External antennas</p> <p>1*2.4G&amp;5G 3dBi External antennas</p>
Power Supply	DC12V/1.5A
Product Size	257*221*50mm (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, 64/128bit WEP data encryption</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

