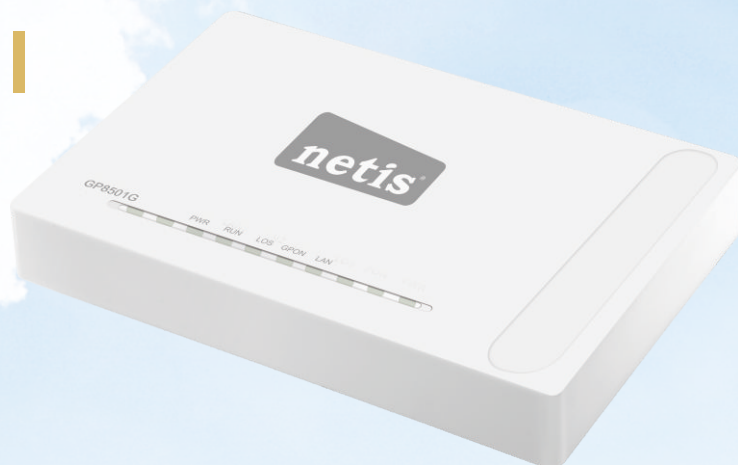


1 Port Gigabit GPON Terminal

GP8501G



Features:

- >Complies with ITU-T G.984.2 CLASS B+
- >Up to 1.244Gbit/s for upstream and 2.448Gbit/s for downstream speed
- >Maximum transfer distance up to 20Km
- >Multiple traffic mapping modes supported
- >IGMP V2&V3 Snooping, IGMP proxy
- >Support VLAN filtering & VLAN transparent transmission, VLAN N:1 aggregation and VLAN 1:1 translation
- >Local management through Web-based GUI and efficient remote management function
- >1* SC/APCGPON port, 1* 10/100/1000Mbps auto-negotiation and auto-MDI/MDIX RJ45 LAN port

Brief:

The GP8501G is an indoor optical network terminal designed for home users and small office and home office (SOHO) users, providing oneGE/FE auto-negotiation and auto-MDI/MDIX Ethernet port. By using the Gigabit-capable Passive Optical Network (GPON) technology, the GP8501G provides a high-speed data channel through a single optical fiber with an upstream rate of 1.244Gbit/s and a downstream rate of 2.488Gbit/s. In this way, you can enjoy the high-speed dataservice, quality voice service, superior video service.

Specification:

Hardware	
Interface	1* SC/APC GPON port 1* 10/100/1000Mbps auto-negotiation and MDI/MDIX RJ45 LAN port
Data Rate	Upstream 1.244Gbps Downstream 2.488Gbps
Distance	0-20KM
Center Wavelength	Tx: 1310 nm Rx: 1490 nm
Extinction Ratio	> 10 dB
Optical Power	Tx optical power: 0.5~5.0dBm Maximum overload optical power: -8 dBm
Receive Sensitive	-27dBm
LED	PWR, RUN, LOS, GPON, LAN
Button	Power ON/OFF, Default
Power Adapter	DC 9V/500mA
Power consumption	<12W (MAX)
Dimensions (L x W x H)	143(L) x 87(W) x 29(H)mm
Weight	200g
Software	
Standard	ITU-T G.984.2 CLASS B+ IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.1p, IEEE 802.1q
GPON	<p>GEM encapsulation mode</p> <p>8 T-CONTs with up to 32 GEM ports</p> <p>GEM port to T-CONT mapping</p> <p>Multiple traffic mapping modes:</p> <ul style="list-style-type: none"> -Mapping from VLAN to GEM port -Mapping from PRI to GEM port -Mapping from Ethernet port to GEM port -Mapping from VLAN+PRI to GEM port -Mapping from Ethernet port+VLAN to GEM port -Mapping from Ethernet port+PRI to GEM port -Mapping from Ethernet port+VLAN+PRI to GEM port -Mapping from IPToS to GEM port <p>Dynamic Bandwidth Assignment (DBA)</p> <p>Forward error correction (FEC) function in the upstream and downstream directions</p> <p>Embedded OAM, physical layer OAM (PLOAM), and OMCI</p> <p>128-bit advanced encryption standard (AES) in the downstream direction</p> <p>Authentication modes of SN, password, and SN+password</p> <p>Deactivation/Activation and re-register of the ONT</p> <p>Loopback test based on the GEM port</p>
Multicast	<p>IGMP V2&V3 Snooping</p> <p>IGMP proxy</p> <p>Bridge WAN multicast</p> <p>Up to 255 multicast groups</p> <p>VLAN transforming of the upstream multicast protocol packet</p> <p>Separate GEM ports for the downstream multicast service streams and the IGMP signaling packets</p> <p>Transformation, transparent transmission, and removal of the downstream multicast VLAN</p> <p>Filtering downstream multicast packets</p> <p>Multicast filtering and forwarding based on MAC address</p> <p>Authentication based on the GEM port</p> <p>Fast leave</p>
Ethernet	<p>Bridge Mode</p> <p>Setting to 10/100/1000 Mbit/s manually</p> <p>Setting to half duplex or full duplex mode manually</p> <p>Upstream and downstream rate limit based on the Ethernet port with a granularity of 64kbit/s</p> <p>PAUSE traffic control (IEEE 802.3 Annex 31B)</p> <p>Ethernet frame of up to 2000 bytes</p> <p>VLAN filtering and VLAN transparent transmission.</p> <p>VLAN N:1 aggregation and VLAN 1:1 translation.</p> <p>IEEE 802.1p Priority Queue</p>
Ipv6	<p>VLAN tag</p> <p>MLD v1/v2, MLD Snooping</p>
Maintenance	<p>Optical power monitoring.</p> <p>Local service configuration, query, and software upgrade on the Web page</p> <p>Remote management using standard compliant OMCI interface as defined by ITU-T G.988</p> <p>Query of the information about the ONT optical transceiver</p> <p>Type B protection</p> <p>Reporting the Dying Gasp alarm when the ONT is powered off</p> <p>802.1ag Ethernet OAM.</p> <p>System energy conservation</p> <p>Dual system protection of the software (normal system and mini system)</p>
OMCI	<p>OMCI configuration management (including the GEM port, T-CONT, CAR, and VLAN configurations)</p> <p>OMCI query management (including the device information and Ethernet port status)</p> <p>OMCI alarming and alarm synchronization</p> <p>OMCI performance statistics</p>
Security	<p>Anti-DoS</p> <p>MAC address filtering</p> <p>Access control rule (ACL) configuration of the ONT</p>

Others

Environment	Operating Temperature: 0°C~40°C(32°F~104°F) Operating Humidity: 5%~90% non-condensing	Storage Temperature: -40°C~70°C(-40°F~158°F) Storage Humidity: 5%~95% non-condensing
Package	1 * GP8501G 1 * Ethernet Cable	1 * 9V/500mA Power Adapter 1 * Quick Installation Guide

Topological Graph:

