Sumavision Gigabit GPON Gateway

---HG525

ONU Overview

HG525 is a high-performance and flexible gateway, for home-side applications in FTTH access scenarios. It uses the GPON technology to implement ultra-broadband access for users. It has 4 Gigabit Ethernet ports,1 telephone port(optional), and 2.4G & 5.8G WIFI wireless access,provides users with a integrated access solution that high speed internet access, telephone,and wireless Wi-Fi access.

HG525 is designed as a desktop placement structure to adapt to different usage environments. It is flexible and QoS capable, supporting features such as plug-and-play and remote diagnosis. It is suitable for FTTH, SOHO and other broadband access scenarios, able to provide users with stable all-optical access network and future-oriented business support capabilities.
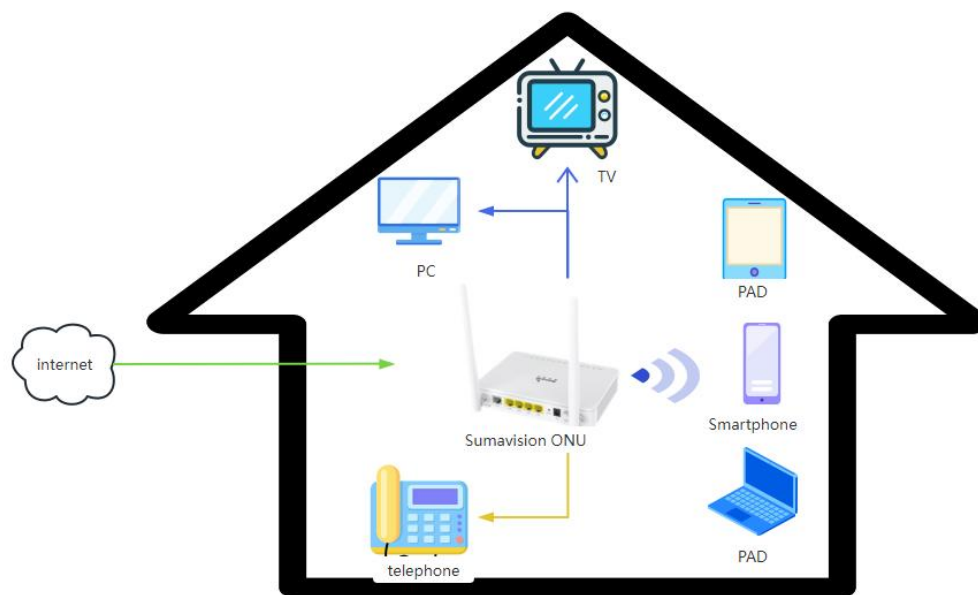
Key Features

➢ **Full gigabit network:**4 gigabit Ethernet ports, which can form a gigabit network within the home.

➢ **Dual band WiFi:** supports 802.11a/b/g/n/ac, with a throughput of up to 1.2Gbps, and supports multiple wireless HD video streams

➢ **Simple maintenance:** configuration can be automatically issued through network management, without on-site testing, Plug and play ,efficient operation and maintenance.

➢ **High integration:** GPON/EPON+4GE+1POTS(optional)+WIFI5, simplifies deployment and saves costs.

➢ **Rich functionality and strong reliability:** supports VPN and firewall to ensure device access security and network security; Support QoS and ensure the quality of service for key services such as voice and video in multi business scenarios

Technical Specifications

software	
Access function	Support for LAN/WAN conversion Bridge/IPOE/PPPoE Bridge mode, routing mode, NAT/NAPT, supporting one-to-one address mapping and port mapping Support VLAN management and VLAN partitioning based on ports and services
IPv4/IPv6	Supports IPv4/IPv6 dual stack, routing and data forwarding
Three layer function	Static routing/RIP/RIPng
VPN	IPSec VPN L2TP VPN VxLAN VPN
Multicast	IGMPV2/V3,IGMP Snooping,IGMP Proxy MLDv1,MLD Snooping,MLD Proxy
rate-limiting	Speed limit based on port,VLAN,and IP address,SP/WRR
QoS	Priority mapping, congestion management, priority management
Security	Basic firewall and access control Anti ARP attack, anti DDoS attack, port scanning defense MAC, IP, and URL filtering Support broadcast storm suppression
Voice	Basic voice call (based on standard SIP protocol) Caller ID display, call forwarding, call waiting, call hold, tripartite calls, etc Fax
WLAN	Supports dual frequency 2.4G and 5G Supports multiple SSIDs, WLAN sharing, WLAN QoS Provide SSID hiding function, support AES and TKIP encryption
management	Multiple management methods such as web management, Telnet management, TR069 management, etc Supports zero configuration, device plug and play Supports ping and tracert network diagnosis
Upgrade	Support for WEB upgrade and remote upgrade

Interface Parameters	
PORTS	4*GE+1*POTS(optional)+WiFi 5(2.4G&5G)+1*USB 2.0
BUTTON	Power button/WPS button/RESET
GPON	1*GPON Interface type: SC/UPC or SC/APC Following standard ITU-T G.984.2, Class B+ Received optical power: -7dBm~-28dBm Emission light power: 0.5-5dBm Transmission rate: downlink rate 2.488Gbit/s, uplink rate 1.244Gbit/s Coverage distance: 20KM
GE	Interface type:RJ 45 10/100/1000 Mbit/s Interface rate adaptation MDI/MDIX automatic configuration Complies with IEEE 802.3 standard
POTS(optional)	Interface type:RJ11 Supports standard SIP protocol Supports G.711A/u, G.729a/b, G.722 encoding and decoding Support T.30/T.38/G.711 fax method Complies with YD/T 1054-2000 standard
WiFi	2x2 MIMO (2.4G&5G) Antenna gain:5dBi(2.4G&5G) Support WPS Downlink rate:300Mbit/s(2.4G);867Mbit/s(5G)
Physical	
Width×Depth×Height	171mm*120mm*33mm
Weight	260g
Power Supply	Input:100-240V AC,50/60Hz,0.3A Output:12V DC,1.0A
Power Consumption	≤12W
Environmental Characteristics	Operating temperature:0℃ ~ 40℃ Humidity:5%~95%(non-condensing)

Sumavision ONU Home scenarios

→ Broadband Access
→ Phoneline
→ Ethernet