



“For a better connected world”

AX3000 GPON/EPON ONT with SuMesh

Smart device, an intelligent router-type ONT

WiFi 6™
AX3000



SM162242-GHDU6HR-TX50

Device Parameters

Dimensions (L x W x H)	231mm x 153mm x 45mm (with external antenna and pads)
Weight	350g
Operating temperature	0°C - 50°C
Operating humidity	10% to 90% (non-condensing)
Power adapter input	100-240V AC, 50-60Hz
System power supply	11-14V DC, 1.5A
Static power consumption	2 W
Maximum power consumption	13 W
PON mode	GPON/EPON
Ports	1POTS + 4GE + 2.4G/5G Wi-Fi + 1USB
Indicators	POWER/LAN/TEL/PON/LOS/WIFI/MESH/USB
Installation mode	On the desk, or on the wall
Compliance certification	CE/WiFi/Anatel

Interface Parameters

GPON/EPON Port	<ul style="list-style-type: none">GPON: FSAN G.984.2 standard, Class B+/C+/C++EPON: 1000BASE-PX20+ Symmetric, CTC2.1, CTC3.0GPON: 2.488/1.244Gbps Downstream/UpstreamEPON: 1.25Gbps Downstream/UpstreamWavelength: Transmit 1310nm, Receiver 1490nmReceiver Sensitivity: GPON: -28dBm; EPON: -27dBmTransmit Optical Power: GPON: 0.5~5dBm; EPON: 0~4dBmSC/PC single-mode fiberSaturation Optical Power: GPON: -8dBm; EPON: -3dBmFlexible mapping between GEM Port and TCONTGPON: Consistent with the SN or password authentication defined in G.984.3EPON: Consistent with the MAC or LOID authentication defined in IEEE 802.3ahBi-directional FECSR-DBA and NSR-DBAType B (single-homing & dual-homing)
Ethernet Port	<ul style="list-style-type: none">Ethernet port-based VLAN tags and tag removal1:1 VLAN, N:1 VLAN, or VLAN transparent transmissionQinQ VLANLimit on the number of learned MAC addressesMAC address learningAuto-adaptive 10 Mbit/s, 100 Mbit/s or 1000 Mbit/sFull/half duplex modeAuto MDI/MDI-X
POTS Port (Optional)	<ul style="list-style-type: none">Maximum REN: 4G.711A/μ, G.729a/b and G.722 encoding/decodingT.30/T.38/G.711 fax modeDTMFSupport SIP protocol
USB Port (Optional)	<ul style="list-style-type: none">USB 3.0 interfaceMaximum ideal transmission rate: 5GbpsFTP-based network storageFile/Print sharing based on SAMBADLNA function
WLAN	<ul style="list-style-type: none">Comply with IEEE 802.11a/b/g/n/ac/ax protocol standard, support 2.4GHz and 5GHz5dBi antenna gainMaximum ideal rate up to 2.4Gbps@5GHz and 600Mbps@2.4GHz2.4GHz supports 2*2 MIMO technology5GHz supports 2*2 MIMO technologyWMM/Multiple SSIDs/WPS

Product Function

Smart O&M

- Rogue ONU detection
- Loop detection
- Dying-Gas detection and reporting
- Compatible with FiberHome, ZTE and HUAWEI OLT

Basic Service

- Bridge and routing mode access Internet
- IPTV service configuration
- Voice service configuration

Wireless

- AX3000, IEEE802.11a/b/g/n/ac/ax standard, 2.4G and 5G
- Maximum 8 SSID
- Hide SSID
- Support wider RF bandwidth, up to 160MHz@5G, 40MHz@2.4G
- Support higher 1024-QAM modulation mode
- Support MU-MIMO encoding mode
- Support wireless security of 64/128 bit WEP, 802.1x, WPA, WPA2 and WPA3
- SuMesh Supported

Layer 3 function

- Port forwarding
- PPPoE/Static IP/DHCP
- NAT/NAPT
- ALG, UPnP
- DDNS/DNS server/DNS client
- IPv6/IPv4 dual stack, and DS-Lite
- Static/Default routes
- Multiple services on one WAN port

QoS

- Ethernet port rate limitation
- Priority tag
- SP/WRR/SP+WRR queue schedule
- Traffic shaping
- Congestion avoidance
- Broadcast packet rate limitation

Power Saving

- Indicator power saving
- Meet GPON energy saving of G987.3 protocol

Security

- Firewall
- Filtering based on MAC/IP/URL addresses and access control

Common O&M

- Automatic registration / link detection / remote upgrade
- OMCI /WEB/TR069 management
- Backup and Restore configuration
- VLAN transparent/tag/untag
- MAC address learning, support 4096 MAC table
- Support PreSet function
- Support timer reboot

Multicast

- Multicast version 2.0
- Multicast VLAN configuration
- Multicast transparent/snooping/proxy
- Fast leave function