



Navigator

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It is Time to Redefine
High Quality Network

“For a better connected world”

GPON/EPON ONT with Mesh

Smart device, an intelligent router-type ONT

WiFi 6™



SM162021-GHDU6HR-TX35

Device Parameters

Dimensions (L x W x H)	160mm x 139mm x 28.5mm (without 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, 0.6A
Static power consumption	2 W
Maximum power consumption	7 W
NNI	GPON/EPON
UNI	1POTS + 2GE + 2.4G/5G Wi-Fi + 1 CATV
Indicators	POWER/LAN/TEL/PON/LOS/WIFI/MESH/CATV
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, CTC3.0 GPON: 2.488/1.244Gbps Downstream/Upstream EPON: 1.25Gbps Downstream/Upstream Wavelength: Transmit 1310nm, Receiver 1490nm Receiver Sensitivity: GPON: -28dBm; EPON: -27dBm Transmit Optical Power: GPON: 0.5~5dBm; EPON: 0~4dBm SC/PC single-mode fiber Saturation Optical Power: GPON: -8dBm; EPON: -3dBm Flexible mapping between GEM Port and TCONT GPON: Consistent with the SN or password authentication defined in G.984.3 EPON: Consistent with the MAC or LOID authentication defined in IEEE 802.3ah Bi-directional FEC SR-DBA and NSR-DBA Type B (single-homing & dual-homing)
Ethernet Port	<ul style="list-style-type: none"> Ethernet port-based VLAN tags and tag removal 1:1 VLAN, N:1 VLAN, or VLAN transparent transmission QinQ VLAN Limit on the number of learned MAC addresses MAC address learning Auto-adaptive 10 Mbit/s, 100 Mbit/s or 1000 Mbit/s Full/half duplex mode Auto MDI/MDI-X
POTS Port (Optional)	<ul style="list-style-type: none"> Maximum REN: 4 G.711A/μ, G.729a/b and G.722 encoding/decoding T.30/T.38/G.711 fax mode DTMF Support SIP protocol
WLAN	<ul style="list-style-type: none"> Comply with IEEE 802.11a/b/g/n/ac/ax protocol standard, support 5GHz Comply with IEEE 802.11a/b/g/n protocol standard, support 2.4GHz 5dBi antenna gain Maximum ideal rate up to 1.2Gbps@5GHz and 300Mbps@2.4GHz 2.4GHz supports 2*2 MIMO technology 5GHz supports 2*2 MIMO technology WMM/Multiple SSIDs/WPS
CATV (Optional)	<ul style="list-style-type: none"> Wavelength: 1550nm RF frequency: 45MHz~1000MHz RF output impedance: 75Ω

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

- AX1500, IEEE802.11a/b/g/n/ac/ax standard for 5G, IEEE802.11a/b/g/n for 2.4G
- Maximum 8 SSID and hide SSID
- Support wider RF bandwidth, up to 80MHz@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
- Mesh R2.0 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