



Navigator

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*It is Time to Redefine
High Quality Network*

“For a better connected world”

GPON/EPON ONT

Smart device, an intelligent router-type ONT



SM16322-XHWHR-T30

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	5 W
NNI	GPON/EPON
UNI	1RF-OUT + 1GE + 1FE + 2.4G Wi-Fi
Indicators	PWR/PON/LOS/GE/FE/WIFI/CATV *
Installation mode	On the desk, or on the wall
Compliance certification	CE/WiFi/Anatel

Interface Parameters

	<ul style="list-style-type: none"> GPON: FSAN G.984.2 standard, Class B+ 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
GPON/EPON Port	<ul style="list-style-type: none"> 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-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 1GE auto-adaptive 10 Mbit/s, 100 Mbit/s or 1000 Mbit/s 1FE auto-adaptive 10 Mbit/s and 100 Mbit/s Full/half duplex mode Auto MDI/MDI-X Comply with IEEE 802.11a/b/g/n protocol standard, support 2.4GHz 5dBi antenna gain Maximum ideal rate up to 300Mbps 2.4GHz supports MIMO technology Encryption mode AES, TKIP, WPA, WPA2, WPA-PSK/WPA2-PSK
Ethernet Port	<ul style="list-style-type: none"> Wavelength: 1550nm RF frequency: 45MHz~1000MHz RF output level: ≥86dBuV RF output return loss: ≥10dB RF output impedance: 75Ω CNR: ≥42dB; CSO: ≤-60dBc; CTB: ≤-65dBc
WLAN (Optional)	
CATV (Optional)	

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
- CATV service configuration

Wireless (Optional)

- IEEE802.11a/b/g/n standard, 2.4G
- Hide SSID
- Support MIMO-OFDM encoding mode: BPSK, QPSK, 16QAM, 64QAM
- Support wireless security of AES, TKIP, WPA, WPA2, WPA-PSK/WPA2-PSK

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

CATV (Optional)

- Support remote configuration from OLT

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
- 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