



Navigator

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It is Time to Redefine
High Quality Network

“For a better connected world”

GPON/EPON ONU

Smart service, interconnection, and O&M



SM16101-G2HHR-T12

Device Parameters

Dimensions (L x W x H)	85mm x 102mm x 22mm	System power supply	11-14V DC, 0.5 A
Weight	< 100 g	Static power consumption	2 W
Operating temperature	0°C - 50°C	Maximum power consumption	2.5 W
Operating humidity	10% to 90% (non-condensing)	Ports	1GE+1CATV
Power adapter input	100-240V AC, 50-60Hz	Indicators	POWER/LAN/LOS/PON/CATV

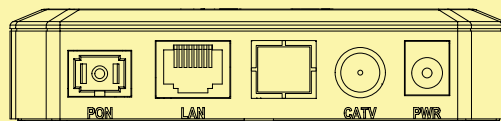
Interface Parameters

GPON/EPON Port

- 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
- SC/PC single-mode fibre
- 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

- Ethernet port-based VLAN tags and tag removal
- 1:1 VLAN, N:1 VLAN, or VLAN transparent transmission
- QinQ VLAN
- Auto-adaptive 10 Mbit/s, 100 Mbit/s, 1000 Mbit/s and 2500 Mbits/s
- Full/half duplex mode
- Auto MDI/MDI-X
- IPv4 stack



Product Function

Smart O&M	<ul style="list-style-type: none"> • Rogue ONU detection • Loop detection • Dying-Gas detection and reporting • Compatible with FiberHome, ZTE and HUAWEI OLT • Zero-configuraton under SFU mode 	Multicast	<ul style="list-style-type: none"> • Multicast version 2.0 • Multicast VLAN configuration • Multicast transparent/snooping • Fast leave function
Common O&M	<ul style="list-style-type: none"> • Automatic registration • Automation link detection • Automation remote upgrade • OMCI / WEB management for GPON • OAM / WEB management for EPON • Backup and Restore configuration • Port VLAN configuration • MAC address learning, support 4096 MAC table • Support timer reboot 	QoS	<ul style="list-style-type: none"> • Ethernet port rate limitation • Priority tag • SP/WRR/SP+WRR queue schedule • Traffic shaping • Congestion avoidance
Power Saving	<ul style="list-style-type: none"> • Indicator power saving • Meet GPON energy saving of G987.3 protocol 	CATV (Optional)	<ul style="list-style-type: none"> • Wavelength: 1550nm • RF frequency: 45MHz~1000MHz • RF output impedance: 75Ω
Security	<ul style="list-style-type: none"> • Firewall • Filtering based on MAC/IP/URL addresses • Access control 		