SUMEC

# “For a better connected world”

## GPON/EPON ONU

**Smart service, interconnection, and O&M**




**SM16101-GHZ-T10**

# Device Parameters

| | | | |
|---|---|---|---|
| **Dimensions (L x W x H)** | 78mm x 78mm x 26mm | **System power supply** | 11-14V DC, 0.5 A |
| **Weight** | < 100 g | **Static power consumption** | 2 W |
| **Operating temperature** | 0℃ - 50℃ | **Maximum power consumption** | 2.5 W |
| **Operating humidity** | 10% to 90% (non-condensing) | **Ports** | 1GE |
| **Power adapter input** | 100-240V AC, 50-60Hz | **Indicators** | POWER/LAN/LOS/PON |

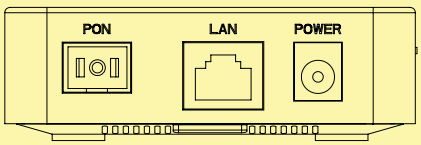
# Interface Parameters

## 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
- 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




# Product Function

| | | | |
|---|---|---|---|
| **Smart O&M** | • Rogue ONU detection<br>• Loop detection<br>• Dying-Gas detection and reporting | **Security** | • Firewall<br>• Filtering based on MAC/IP/URL addresses<br>• Access control |
| **Common O&M** | • Automatic registration<br>• Automation link detection<br>• Automation remote upgrade<br>• OMCI / WEB management for GPON<br>• OAM / WEB management for EPON<br>• Backup and Restore configuration<br>• Port VLAN configuration<br>• MAC address learning | **QoS** | • Ethernet port rate limitation<br>• Priority tag<br>• SP/WRR/SP+WRR queue schedule<br>• Traffic shaping<br>• Congestion avoidance |
| **Power Saving** | • Indicator power saving<br>• Meet GPON energy saving of G987.3 protocol | **Multicast** | • Multicast version 2.0<br>• Multicast VLAN configuration<br>• Multicast transparent/snooping<br>• Fast leave function |