



# EchoLife EG8280P



**Gigabit Optical Access Terminal for Enterprise**

## Device Parameters

Dimensions (H × W × D)	56 mm × 254 mm × 180 mm
Weight	About 1.1 kg
Operating temperature	-40°C to +55°C
Operating humidity	5%RH to 95%RH, no condensing
Power adapter input	100 V to 240 V AC, 50 Hz/60 Hz
System power supply	56 V DC, 2.5A
UNI	8*GE (PoE and PoE+) + 2*POTS
NNI	1*GPON/XG-PON/XGS-PON
Static power consumption	12 W
Typical power consumption	14 W (PoE port without PD)
Maximum power consumption	16 W (PoE port without PD) 140 W (PoE port with PD having the maximum power consumption)
Maximum PoE output power	120 W (supported by the system) 30 W (supported by every GE port)
Surge protection specifications	GE port: common mode 4 kV; differential mode 0.5 kV. POTS port: common mode 4 kV; differential mode 0.5 kV. AC power supply: common mode 6 kV; differential mode 6 kV.

## Port Parameters

### PON Port

- SC/UPC connector
- SFP optical module
- Transmission rate (unit: Gbit/s)  
GPON: downstream 2.488 and upstream 1.244  
XG-PON: downstream 9.953 and upstream 2.488  
XGS-PON: downstream 9.953 and upstream 9.953
- Type B single-homing
- Type B dual-homing (supported in Layer 2 forwarding)

### GE Electrical Port

- PoE and PoE+  
IEEE 802.3af and IEEE 802.3at
- RJ-45 connector
- Port rate autonegotiation (10/100/1000 Mbit/s)
- Auto-MDI/MDIX
- Configuration of the number of MAC addresses learned
- Ethernet port-based VLAN transparent transmission and VLAN filtering

### POTS Port

- RJ-11 connector
- Line code mode: PCM
- ITU-T Q.551, ITU-T Q.552

## Functions

### Automatic Service Provisioning

- Authentication exemption
- XML/OMCI/TR069

### Smart O&M

- XML/Web UI management
- Y.1731
- Rogue ONT detection and self-regulation
- Ring network detection
- PPPoE/DHCP/ Call emulation testing

### Layer 3 Features

- Default/Static/Policy/Service routes
- VLAN binding
- ALG/UPnP/ARP
- DDNS/DMZ/DNS/NAPT
- PPPoE/Static IP/DHCP/DHCP option66
- Port mapping/Port trigger

### Layer 2 Management

- DHCP option82
- PITP
- BPDU transparent transmission
- LLDP/LLDP-MED

### Multicast

- IGMP v2/v3 snooping
- Dynamic controllable multicast
- MLDv1/MLDv2 snooping

### Voice

- SIP/H.248
- G.711A/μ, G.729 and G.722 coding/decoding
- T.38/G.711 fax mode

### QoS

- Ethernet port rate limitation
- 802.1p priority
- SP/WRR/SP+WRR

### Security

- Filtering based on MAC/IP/URL
- DoS/ARP anti-attacks
- Session number restriction
- Device access control
- 802.1x