

EchoLife EG8247Q Datasheet

EchoLife EG8247Q, an intelligent routing-type ONT

Overview



Device Parameters

Dimensions (H x W x D) (without external antenna and pads)	32 mm x 219 mm x 159 mm (without external antenna and pads)	System power supply	11–14 V DC, 2 A
Weight	About 400 g	Static power consumption	6.6 W
Operating temperature	0°C to 40°C	Maximum power consumption	24 W
Operating humidity	5% RH to 95% RH (non- condensing)	NNI	GPON
Power adapter input	100–240 V AC, 50/60 Hz	UNI	2POTS + 4GE + 2.4G/5G Wi-Fi + 2USB+1CATV
Indicators	POWER/PON/LOS/LAN/TEL /USB/WLAN/WPS/CATV	Optical Connector	SC/APC
Installation mode	On the desk, or on the wall	Compliance certification	CE/WiFi

Interface Parameters

GPON port <ul style="list-style-type: none"> Class B+ Receiver sensitivity: -27 dBm ~ -29dBm Overload optical power: -8 dBm Wavelengths: US 1310 nm, DS 1490 nm Wavelength blocking filter (WBF) Flexible mapping between GEM Port and TCONT GPON: consistent with the SN or password authentication defined in G.984.3 Bi-directional FEC SR-DBA and NSR-DBA Type B (single-homing&dual-homing) 	POTS port <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 Emergency calls (with the SIP protocol)
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 	USB port <ul style="list-style-type: none"> USB2.0 FTP-based network storage File/Print sharing based on SAMBA DLNA function
CATV port <ul style="list-style-type: none"> Frequency Range 54 MHz to 870 MHz Output resistance 75 ohms Received average optical power: -8dBm to +2dBm RF output power: ≥17dBmV/Ch (With RF source analog channel power input = 20dBmV/ch, and 40 analog / 63 digital channels (4.3% OMI analog, 2.15 % digital)) 	WLAN <ul style="list-style-type: none"> IEEE 802.11 b/g/n (2.4G) IEEE 802.11 a/n/ac (5G) 3 × 3 MIMO (2.4G/5G) Antenna gain: 2 dBi WMM/Multiple SSIDs/WPS 2.4G/5G concurrent Air interface rate:450 Mbit/s (2.4G);1300 Mbit/s (5G)

Product Function


Smart interconnection <ul style="list-style-type: none"> Smart Wi-Fi coverage SIP/H.248 auto-negotiation Any port any service Parental control 	Smart O&M <ul style="list-style-type: none"> IPTV video quality diagnosis eMDI Rogue ONT detection and isolation from the OLT Call emulation, and circuit test and loop-line test PPPoE/DHCP simulation testing 	Layer 3 features <ul style="list-style-type: none"> PPPoE/Static IP/DHCP NAT/NAPT Port forwarding ALG, UPnP DDNS/DNS server/DNS client IPv6/IPv4 dual stack, and DS-Lite Static/Default routes Multiple services on one WAN port 	Security <ul style="list-style-type: none"> SPI firewall Filtering based on MAC/IP/URL addresses
Humanized design <ul style="list-style-type: none"> Support one button to turn off all LEDs 			Common O&M <ul style="list-style-type: none"> OMCI/Web UI/TR069 Variable-length OMCI messages Dual-system software

	<ul style="list-style-type: none"> WLAN emulation eSight management 		backup and rollback
Multicast	Smart service	Power saving	QoS
<ul style="list-style-type: none"> IGMP v2/v3 proxy/snooping MLD v1/v2 snooping 	<ul style="list-style-type: none"> Scheduled Wi-Fi shutdown Smart Wi-Fi sharing: Portal/802.1x authentication SoftGRE-based sharing Association of one account with two POTS ports 	<ul style="list-style-type: none"> Indicator power saving COC V5 	<ul style="list-style-type: none"> Ethernet port rate limitation 802.1p priority SP/WRR/SP+WRR Broadcast packet rate limitation

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