

A Smarter Way for Your Broadband Life

Huawei HG8045Q, an intelligent routing-type ONT

Smart service

Smart
interconnection

Smart O&M



○ Device Parameters

Dimensions (H x W x D)	230 x 190 x 30 mm (excluding the support)	System power supply	11–14 V DC, 2 A
Weight	about 500 g	Static power consumption	5 W
Operating temperature	0° C to +40° C	Maximum power consumption	21 W
Operating humidity	5% RH to 95% RH (non-condensing)	Ports	4GE+2.4G/5G Wi-Fi+USB
Power adapter input	100–240 V AC, 50–60 Hz	Indicators	POWER/PON/LOS/USB/PORT /2.4GWi-Fi/5G Wi-Fi/WPS

○ Interface Parameters

GPON Port	Ethernet Port	WLAN
• Class B+ • Receiver sensitivity: -27dBm • Wavelengths: US 1310nm, DS 1490nm • 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	• 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	• 802.11 b/g/n (2.4G) • 802.11 a/n/ac (5G) • 3 x 3 MIMO • Antenna gain: 2 dBi • WMM • Multiple SSIDs • WPS • 2.4G/5G concurrent • Air interface rate: 450 Mbit/s (2.4G) 1300 Mbit/s (5G)
	Ethernet Port • USB2.0 • FTP-based network storage • File/Print sharing based on SAMBA • DLNA DMS/UPnP AV (media server)	

○ Product Function

Smart interconnection	• Any port any service • L2/L3 forwarding: 1G uplink, 2G downlink	QoS	• Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR
Smart O&M	• Variable-length OMCI messages • Active/Passive rogue ONT detection and isolation • PPPoE/DHCP simulation testing • WLAN emulation	Layer 3 Features	• 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
Smart service	• Smart Wi-Fi sharing		
Security	• Anti-DoS attack • Filtering based on MAC/IP/URL addresses	Multicast	• IGMP v2/v3 snooping • MLD v1/v2 snooping • Multicast services through Wi-Fi
Power Saving	• Dynamic power saving • Indicator power saving • COCv4	Common O&M	• OMCI/Web UI/TR069 • Dual-system software backup and rollback