

A Smarter Way for Your Broadband Life

Huawei HN8245Q, an intelligent XG-PON routing-type ONT

Smart
service

Smart
interconnection

Smart O&M



○ Device Parameters

Dimensions (HxWxD)	(238 × 190 × 26)mm (Without the base)
Weight	< 1 kg
Operating temperature	0°C to +40°C
Operating humidity	5%RH to 95%RH (non-condensing)
Power adapter input	100–240V AC, 50–60Hz
System power supply	11–14V DC, 3 A
Static power consumption	6 w
Maximum power consumption	30 w
Ports	2POTS+4GE+2.4G&5G Wi-Fi +2USB

○ Interface Parameters

XG-PON Port	• Class N1/N2a • Receiver sensitivity: -28dBm • Wavelengths: US 1260-1280nm, DS 1575-1580nm • WBF • Flexible mapping between GEM Port and TCONT • SN/Password/SN+Password/Bi-directional authentication based on OMCI • Bi-directional FEC • SR-DBA and NSR-DBA • 2.5Gbps uplink, 10Gbps downlink
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
POTS Port	• 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)
USB Port	• USB3.0 • FTP-based network storage • File/Print sharing based on SAMBA • DLNA DMS/UPnP AV (media server)
WLAN	• IEEE 802.11 b/g/n(2.4G) • IEEE 802.11 a/n/ac(5G) • 3 × 3 MIMO • Antenna gain: 2 dBi • WMM • Multiple SSIDs • WPS • 2.4G/5G concurrent

○ Product Function

Smart interconnection

- Smart Wi-Fi coverage
- SIP/H.248 auto-negotiation
- Any port any service
- Parental control

Smart service

- Smart Wi-Fi sharing:
Portal/802.1x authentication
SoftGRE-based sharing
- Association of one account with two POTS ports

Smart O&M

- IPTV video quality diagnosis
- Variable-length OMCI messages
- Active/Passive rogue ONT detection and isolation
- Call emulation, and circuit test and loop-line test
- PPPoE/DHCP simulation testing
- Wi-Fi emulation
- One-click diagnosis(Web)

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

Multicast

- IGMP v2/v3 proxy snooping
- MLD v1/v2 snooping
- Multicast services through Wi-Fi

QoS

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

Security

- SPI firewall
- Filtering based on MAC/IP addresses

Common O&M

- OMCI/Web UI/TR069
- Dual-system software backup and rollback

Power Saving

- COC V5
- Dynamic power saving
- Scheduled Wi-Fi shutdown