

A Smarter Way for Your Broadband Life

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

Smart service

Smart
interconnection

Smart O&M



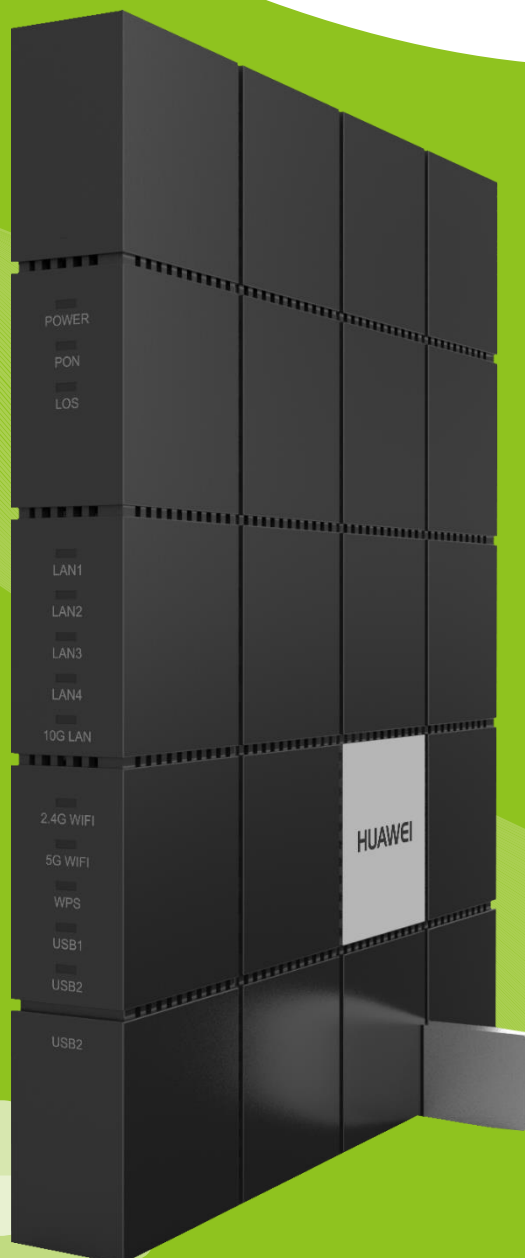
A Smarter Way for Your Broadband Life

Huawei HN8055Q , an intelligent XG-PON routing-type ONT

Smart service

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Smart O&M



○ Device Parameters

Dimensions (H x W x D)	238 mm x 190 mm x 26 mm (Without the base)
Weight	< 1000 g
Operating temperature	0°C to +40°C
Operating humidity	5% RH to 95% RH (non-condensing)
Power adapter input	100–240 V AC , 50/60Hz
System power supply	11-14 V DC, 3 A
Maximum power consumption	34 W
NNI	XG-PON (SFP+ Optical Module)
UNI	4*GE + 1*10GE + 2USB + 2.4G & 5G Wi-Fi
Indicators	POWER/PON/LOS/LAN/10G LAN/ 2.4G Wi-Fi/5G Wi-Fi/WPS/USB

○ Interface Parameters

XG-PON Port

- Class N1/N2a
- Receiver sensitivity: -28dBm
- Wavelengths: US 1260 - 1280 nm, DS 1575-1580 nm
- Wavelength blocking filter (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
- 2.5G bps uplink, 10G bps 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

USB Port

- USB 3.0
- 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 (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

- Smart Wi-Fi coverage
- Any port any service
- Parental control

Smart service

- Smart Wi-Fi sharing:
Portal/802.1x authentication
SoftGRE-based sharing

Smart O&M

- IPTV video quality diagnosis
- Variable-length OMCI messages
- Active/Passive rogue ONT detection and isolation
- PPPoE/DHCP simulation testing
- Wi-Fi 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

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
- Scheduled Wi-Fi shutdown

○ Device Parameters

Dimensions (H x W x D)	238mm x 190mm x 26mm (Without the base)
Weight	About 850 g
Operating temperature	0°C to 40°C
Operating humidity	5% RH to 95% RH (non-condensing)
Power adapter input	100–240 V AC , 50/60 Hz
System power supply	11–14V DC, 3 A
Static power consumption	6 W
Maximum power consumption	30 W
NNI	XG-PON (SFP+ Optical Module)
UNI	2POTS+4GE+2.4G&5G Wi-Fi+2USB

○ Interface Parameters

XG-PON Port	<ul style="list-style-type: none"> • Class N1/N2a • Receiver sensitivity: -28dBm • Wavelengths: US 1260-1280nm, DS 1575-1580nm • Wavelength blocking filter (WBF) • Flexible mapping between GEM Port and TCONT • SN/Password/SN+Password/Bi-directional authentication based on OMCI • upstream and downstream FEC • SR-DBA and NSR-DBA • 2.5Gbps uplink, 10Gbps downlink
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
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)
USB Port	<ul style="list-style-type: none"> • USB3.0 • FTP-based network storage • File/Print sharing based on SAMBA • DLNA DMS/UPnP AV (media server)
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: 2. 4G: 450 Mbps 5G: 1300 Mbps

○ 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
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