A Smarter Way
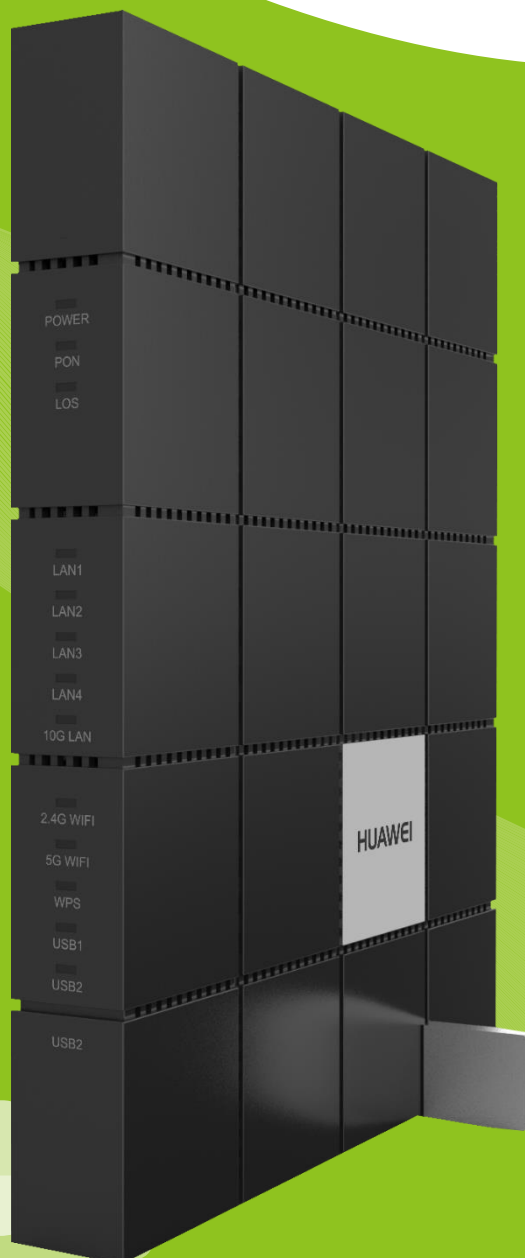# for Your Broadband Life

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

Smart service

Smart interconnection

POWER
PON
LOS

LAN1
LAN2
LAN3
LAN4
10G LAN

2.4G WIFI
5G WIFI
WPS
USB1
USB2

USB2

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Smart O&M

HUAWEI

O 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℃ to +40℃
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

O 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)

O 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

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