

# A Smarter Way for Your Broadband Life

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

Smart service

Smart  
interconnection

Smart O&M



## ○ Device Parameters

Dimensions (H x W x D)	238 mm x 190 mm x 26 mm (Without the base)
Weight	< 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 , 50–60Hz
System power supply	12 V DC, 3 A
Maximum power consumption	< 34 W
Ports	4*GE+1*10GE+ 2POTS+2USB
Indicators	4*GE+1*10GE+2.4G&5G Wi-Fi +2USB

## ○ Interface Parameters

<b>XG-PON Port</b>	<ul style="list-style-type: none"> <li>• Class N1/N2a</li> <li>• Receiver sensitivity: -28dBm</li> <li>• Wavelengths: US 1260 - 1280 nm, DS 1575-1580 nm</li> <li>• WBF</li> <li>• Flexible mapping between GEM Port and TCONT</li> <li>• SN/Password/SN+Password/Bi-directional authentication based on OMCI</li> <li>• Bi-directional FEC</li> <li>• SR-DBA and NSR-DBA</li> <li>• 2.5G bps uplink, 10G bps downlink</li> </ul>
<b>Ethernet Port</b>	<ul style="list-style-type: none"> <li>• Ethernet port-based VLAN tags and tag removal</li> <li>• 1:1 VLAN, N:1 VLAN, or VLAN transparent transmission</li> <li>• QinQ VLAN</li> <li>• Limit on the number of learned MAC addresses</li> <li>• MAC address learning</li> </ul>
<b>USB Port</b>	<ul style="list-style-type: none"> <li>• USB 3.0</li> <li>• FTP-based network storage</li> <li>• File/Print sharing based on SAMBA</li> <li>• DLNA DMS/UPnP AV (media server)</li> </ul>
<b>WLAN</b>	<ul style="list-style-type: none"> <li>• IEEE 802.11 b/g/n(2.4G)</li> <li>• IEEE 802.11 a/n/ac(5G)</li> <li>• 3 × 3 MIMO</li> <li>• Antenna gain: 2 dBi</li> <li>• WMM</li> <li>• Multiple SSIDs</li> <li>• WPS</li> <li>• 2.4G/5G concurrent</li> <li>• Air interface rate: 450 Mbit/s(2.4G); 1300 Mbit/s(5G)</li> </ul>

## ○ 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
- Dynamic power Saving
- Scheduled Wi-Fi shutdown