# A Smarter Way
## for Your Broadband Life

Huawei HN8250Ts, an intelligent XGS-PON bridging-type ONT

Smart interconnection

Smart service

Smart O&M

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# Device Parameters

| | |
|---|---|
| Dimensions (H x W x D) | 178 mm x 117 mm x 34 mm |
| Weight | About 350g |
| Operating temperature | 0°C to +40°C |
| Operating humidity | 5% RH to 95% RH (non-condensing) |
| Power adapter input | 90-264 V AC，50/60 Hz |
| System power supply | 12V DC, 1 A |
| Static power consumption | 6.7 W |
| Maximum power consumption | 12 W |
| NNI | XGS-PON |
| UNI | 1 x 10GE + 4GE + 2POTS |
| Indicators | Power/PON/LOS/10G LAN/ LAN1/LAN2/LAN3/LAN4/TEL1/TEL2 |
| Optical connector | SC/UPC |

# Interface Parameters

| | |
|---|---|
| **XGS-PON Port** | • Class N2<br>• Receiver sensitivity: -28 dBm<br>• Wavelengths: US 1260-1280 nm, DS 1575-1580 nm<br>• Wavelength blocking filter (WBF)<br>• Flexible mapping between GEM Port and TCONT<br>• SN/Password/SN+Password/Bi-directional authentication based on OMCI<br>• upstream and downstream FEC<br>• SR-DBA and NSR-DBA<br>• 9.95328 Gbit/s upstream, 9.95328 Gbit/s downstream |
| **Ethernet Port** | • 4 x GE + 1 x 10GE<br>• Ethernet port-based VLAN tags and tag removal<br>• 1:1 VLAN, N:1 VLAN, or VLAN transparent transmission<br>• QinQ VLAN<br>• Limit on the number of learned MAC addresses<br>• MAC address learning<br>• 10 GE: Auto-adaptive 100 Mbit/s, 1000 Mbit/s or 10000 Mbit/s<br>• GE: Auto-adaptive 10 Mbit/s, 100 Mbit/s or 1000 Mbit/s |
| **POTS Port** | • Maximum REN: 4<br>• G.711A/µ, G.729a/b, and G.722 encoding/decoding<br>• T.30/T.38/G.711 fax mode<br>• DTMF<br>• Emergency calls (with the SIP protocol) |

# Product Function

## Smart interconnection

• SIP/H.248 auto-negotiation

## Smart service

• Association of one account with one POTS port

## Smart O&M

• Variable-length OMCI messages
• Rogue ONT detection and isolation from the OLT
• PPPoE/DHCP simulation testing
• Call emulation, and circuit test and loop-line test

## Multicast

• IGMP v2/v3 snooping
• MLD v1/v2 snooping
• Fast leave
• VLAN tag translation, transparent transmission, and removal for downstream multicast packets
• IGMP/MLD protocol packet rate limitation

## Security

• MAC address filtering

## QoS

• Ethernet port rate limitation
• 802.1p priority
• SP/WRR/SP+WRR
• Broadcast packet rate limitation
• Flow mapping based on the VLAN ID, port ID, or/and 802.1p

## Common O&M

• OMCI/Web UI
• Dual-system software backup and rollback
• 802.1ag Ethernet OAM
• Optical link measurement and diagnosis

## Power Saving

• Indicator power saving
• COC V7

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