

Hyperfibre ONT technical specifications



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

**Smart
interconnection**

**Smart
O&M**

**Smart
service**



For more information on Hyperfibre, **visit hyperfibre.co.nz**

Huawei HN8250Ts

Device Parameters

Dimensions (H x W x D)	178mm x 117mm x 34mm
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	<ul style="list-style-type: none">• Class N2• Receiver sensitivity: - 28 dBm• 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• Upstream and downstream FEC• SR-DBA and NSR-DBA• 10 Gbit/s upstream, 10 Gbit/s downstream
Ethernet Port	<ul style="list-style-type: none">• 4 x GE + 1 x 10GE• 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• 10 GE: Auto adaptive 100 Mbit/s, 1000 Mbit/s or 10000 Mbit/s• GE: Auto adaptive 10 Mbit/s, 100 Mbit/s or 1000 Mbit/s
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)

Product Function

Smart interconnection	<ul style="list-style-type: none">• SIP/H.248 auto-negotiation
Smart service	<ul style="list-style-type: none">• Association of one account with one POTS port
Smart O&M	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• MAC address filtering
QoS	<ul style="list-style-type: none">• Ethernet port rate limitation• 802.1p priority• SP/WRR/SP+WRR• Broadcast packet rate limitation• Flow mapping based on the VLAN ID, port ID, and/or 802.1p
Common O&M	<ul style="list-style-type: none">• OMCI/Web UI• Dual-system software backup and rollback• 802.1ag Ethernet OAM• Optical link measurement and diagnosis
Power Saving	<ul style="list-style-type: none">• Indicator power saving• COC V7



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