Hyperfibre ONT technical specifications

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

Smart interconnection

Smart Service

Smart O&M

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

Connect Better

Tuatahi
First Fibre

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
- 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
- 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
- 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	• 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, and/or 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