EN8250Ts-20 Datasheet

Huawei intelligent XGS-PON bridging-type ONT

Overview

The Huawei OptiXstar EN8250Ts-20 is an XGS-PON bridging-type ONT in the Huawei all-optical access solution. It uses the XGS-PON technology to implement ultra-broadband access for users.

It provides one 10GE port, four GE ports, and two POTS ports. The high forwarding performance ensures the user experience of voice, data and HD video services, and provides customers with an ideal all-optical access solution and future-oriented service support capability.

- Smart service
- Smart interconnection
- Smart O&M

Device Parameters

Dimensions (H x W x D) (without pads)	34 mm x 178 mm x 117 mm	System power supply	12 V DC, 1 A
Weight	About 340 g	Static power consumption	6.4 W
Operating temperature	0°C to 40°C	Maximum power consumption	12 W
Operating humidity	5% RH to 95% RH (non-	UNI	XGS-PON

	condensing)		
Power adapter input	100–240 V AC, 50/60 Hz	**NNI**	1x10GE+4xGE+2xPOTS
Indicators	Power/PON/LOS/10G LAN/LAN1/LAN2/LAN3/LAN4/TEL1/TEL2		

Interface Parameters

XGS-PON port	Ethernet port	POTS port
• Class N1/N2/E1 • Receiver sensitivity: -28 dBm • Wavelengths: US 1260-1280 nm, DS 1575-1580 nm • Upstream and downlink rate: 9.953 Gbit/s upstream, 9.953 Gbit/s downstream • 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	• 1x10GE+4xGE • 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, 2500 Mbit/s, 5000 Mbit/s or 10000 Mbit/s • GE: Auto-adaptive 10 Mbit/s, 100 Mbit/s or 1000 Mbit/s	• 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	Smart service	Smart O&M	Multicast
• SIP/H.248 auto-negotiation	• Association of one account with one POTS port	• 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	• 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	**QoS**	**Common O&M**	**Power Saving**
• MAC address filtering	• 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	• OMCI/Web UI • Dual-system software backup and rollback • 802.1ag Ethernet OAM • Optical link measurement and diagnosis	• Indicator power saving • CoC V8

Huawei Technologies Co., Ltd.

Address:Huawei Industrial Base Bantian, Longgang Shenzhen 518129 People's Republic of China

Website:http://www.huawei.com