

Huawei OptiXstar EN8255X6s-8X Datasheet 01

Huawei intelligent XGS-PON and Wi-Fi 6 routing-type ONT

Overview

The Huawei OptiXstar EN8255X6s-8X is an XGS-PON and Wi-Fi 6 routing-type ONT. It uses the XGS-PON and Wi-Fi 6 technologies to implement ultra-broadband access, high performance and wide coverage for users. The high forwarding performance ensures the user experience of voice and data services, and provides customers with an ideal all-optical access solution and future-oriented service support capability.

It provides one 10GE port, four GE ports, two POTS ports, one USB port and 2.4GHz&5GHz Wi-Fi 6 function.

- Next generation Wi-Fi 6 technology
- Smart service
- Smart interconnection
- Smart O&M



NOTE

The appearance shown in this document may be different from the actual appearance of the product. The actual product prevails.

Device Parameters

Dimensions (H x W x D)	176mm x 250mm x 35mm (excluding base) 186mm x 250mm x 52mm (including base)	Maximum power consumption	30 W
Weight	About 705 g	NNI	XGS-PON
Operating temperature	0°C to 40°C	UNI	1x10GE+4xGE+2xPOTS+1xUSB2.0+2.4GHz&5GHz Wi-Fi 6
Operating humidity	5% RH to 95% RH (non-condensing)	Optical connector	SC/APC
Power adapter input	100–240 V AC, 50/60 Hz	Indicators	Power/PON/LOS/TEL1/TEL2/LAN1-LAN4/10GLAN/WLAN/WPS/USB
System power supply	12 V DC, 3 A	Memory	256 MB Flash, 512 MB RAM
Static power consumption	12.5 W		

Interface Parameters

XGS-PON port <ul style="list-style-type: none">• Class N1/N2/E1• Receiver sensitivity: -28 dBm• Wavelengths: 1260–1280 nm upstream, 1575–1580 nm downstream• Upstream and downstream 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	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)
WLAN <ul style="list-style-type: none">• IEEE 802.11 b/g/n/ax (2.4GHz)• IEEE 802.11 a/n/ac/ax (5GHz)• 4 × 4 MIMO (2.4GHz)• 4 × 4 MIMO (5GHz)• 2.4GHz&5GHz concurrent• Antenna gain: 2 dBi• Air interface rate: 1147 Mbit/s (2.4GHz), 4804 Mbit/s	USB port <ul style="list-style-type: none">• USB2.0• FTP-based network storage• File/Print sharing based on SAMBA• DLNA function
	Ethernet port <ul style="list-style-type: none">• 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• GE port supports auto-adaptive 10 Mbit/s, 100 Mbit/s or

(5GHz) <ul style="list-style-type: none"> • 4096 QAM • 160 MHz frequency bandwidth • OFDMA • UL/DL MU-MIMO • DCM • BSS Coloring • Beamforming • Band steering • WPA3 • WMM/Multiple SSIDs/WPS • Zero-DFS 	1000 Mbit/s <ul style="list-style-type: none"> • 10GE port supports auto-adaptive 100 Mbit/s, 1000 Mbit/s, 2500 Mbit/s, 5000 Mbit/s or 10000 Mbit/s
---	--


Product Function

Smart interconnection <ul style="list-style-type: none"> • Smart Wi-Fi coverage • SIP/H.248 auto-negotiation • Any port any service • Parental control 	Smart service <ul style="list-style-type: none"> • Scheduled Wi-Fi shutdown • Smart Wi-Fi sharing: Portal/802.1x authentication; SoftGRE-based sharing • Association of one account with two POTS ports 	Smart O&M <ul style="list-style-type: none"> • IPTV video quality diagnosis • eMDI • Rogue ONT detection and isolation from the OLT • Call emulation, and circuit test and loop-line test • PPPoE/DHCP simulation testing • Neighboring AP scanning
Multicast <ul style="list-style-type: none"> • IGMP v2/v3 proxy/snooping • MLD v1/v2 snooping 	Power saving <ul style="list-style-type: none"> • LED indicator power saving • CoC v8 	
Security <ul style="list-style-type: none"> • SPI firewall • Filtering based on MAC/IP/URL addresses • Secure boot 	Common O&M <ul style="list-style-type: none"> • OMCI/Web UI/TR069 • Variable-length OMCI messages • Dual-system software backup and rollback 	Layer 3 features <ul style="list-style-type: none"> • PPPoE/Static IP/DHCP • NAT/NAPT • Port forwarding • ALG, UPnP • DDNS/DNS server/DNS client • IPv6/IPv4 dual stack, DS-Lite and IPv6 SPI • Static/Default routes • Multiple services on one WAN port
QoS <ul style="list-style-type: none"> • Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR • Broadcast packet rate limitation 	Home network feature <ul style="list-style-type: none"> • Visualized home network management • User-defined bandwidth allocation • Wi-Fi optimization & Wi-Fi roaming • Wi-Fi O&M 	

Copyright © Huawei Technologies Co., Ltd. 2023. All rights reserved.

No part of this document may be reproduced or transmitted in any form or by any means without prior written consent of Huawei Technologies Co., Ltd.

Trademarks and Permissions

 HUAWEI and other Huawei trademarks are trademarks of Huawei Technologies Co., Ltd.

All other trademarks and trade names mentioned in this document are the property of their respective holders.

Notice

The purchased products, services and features are stipulated by the contract made between Huawei and the customer. All or part of the products, services and features described in this document may not be within the purchase scope or the usage scope. Unless otherwise specified in the contract, all statements, information, and recommendations in this document are provided "AS IS" without warranties, guarantees or representations of any kind, either express or implied.

The information in this document is subject to change without notice. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute a warranty of any kind, express or implied.

Huawei Technologies Co., Ltd.

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

Website:<http://www.huawei.com>