

# Huawei OptiXstar EG8145X6-10 Datasheet 01

Huawei intelligent GPON and Wi-Fi 6 routing-type ONT

#### Overview

The Huawei OptiXstar EG8145X6-10 is an intelligent GPON and Wi-Fi 6 routing-type ONT. It uses the GPON Wi-Fi 6 technology to implement ultra-broadband access, high performance and wide coverage for users. 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.

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

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



### **Device Parameters**

Operating temperature	0°C to 40°C	NNI	GPON
Operating humidity	5% RH to 95% RH (non- condensing)	UNI	4xGE+1xPOTS+2.4GHz&5GH z Wi-Fi 6+1xUSB2.0
Power adapter input	100-240 V AC, 50/60 Hz	Optical connector	SC/APC
System power supply	12V DC, 1A	Indicators	Power/PON/LOS/LAN/TEL/US B/WLAN/WPS
Static power consumption	6.6 W	Weight	About 246 g
Maximum power consumption	12 W	Dimensions (H x W x D) (without external antenna and pads)	35 mm x 155 mm x 105 mm
Memory	128MB Flash, 256MB RAM		

### **Interface Parameters**

GPON port	POTS port	
Class B+	Maximum ringer equivalence number (REN): 4	
Receiver sensitivity: -27 dBm	G.711A/μ, G.729a/b and G.722 encoding/decoding	
Overload optical power: -8 dBm	T.30/T.38/G.711 fax mode	

0	Wavelengths: US 1310 nm, DS 1490 nm	□ DTMF		
	Wavelength blocking filter (WBF) of G.984.5	Emergency calls (with the SIP protocol)		
	Flexible mapping between GEM Port and TCONT	USB port		
	GPON: consistent with the SN or password authentication defined in G.984.3	USB2.0  FTP-based network storage		
	Bi-directional FEC			
	SR-DBA and NSR-DBA	File/Print sharing based on SAMBA		
		DLNA function		
WL	AN	Ethernet port		
	IEEE 802.11 b/g/n/ax (2.4G)	Ethernet port-based VLAN tags and tag removal		
	IEEE 802.11 a/n/ac/ax (5G)	1:1 VLAN, N:1 VLAN, or VLAN transparent transmission		
	2 × 2 MIMO (2.4G)	□ QinQ VLAN		
	2 × 2 MIMO (5G)	Limit on the number of learned MAC addresses		
	Antenna gain: 5 dBi	MAC address learning		
	WMM/Multiple SSIDs/WPS	Auto-adaptive 10 Mbit/s, 100 Mbit/s or 1000 Mbit/s		
	2.4G&5G concurrent			
0	Air interface rate: 574 Mbit/s (2.4G), 2402 Mbit/s (5G)			
0	Beamforming			
	Band steering			
	DL OFDMA			
	DL MU-MIMO			
	1024QAM			
	160MHz frequency bandwidth			
	WPA3			

## **Product Function**

Smart interconnection	Smart service	Smart O&M	Common O&M
Smart Wi-Fi coverage SIP/H.248 auto-negotiation Any port any service Parental control	Scheduled Wi-Fi shutdown Smart Wi-Fi sharing: Portal/802.1x authentication; SoftGRE-based sharing	<ul> <li>IPTV video quality diagnosis</li> <li>eMDI</li> <li>Rogue ONT detection and isolation from the OLT</li> <li>Call emulation, and circuit test and loop-line test</li> <li>PPPoE/DHCP simulation testing</li> <li>WLAN emulation</li> </ul>	OMCI/Web UI/TR069 Variable-length OMCI messages Dual-system software backup and rollback
Multicast	Security	Layer 3 features	Home network feature
<ul> <li>IGMP v2/v3 proxy/snooping</li> <li>MLD v1/v2 snooping</li> <li>Power saving</li> <li>Indicator power saving</li> </ul>	<ul> <li>SPI firewall</li> <li>Filtering based on MAC/IP/URL addresses</li> <li>QoS</li> <li>Ethernet port rate limitation</li> </ul>	PPPoE/Static IP/DHCP NAT/NAPT Port forwarding ALG, UPnP DDNS/DNS server/DNS client	<ul> <li>Visualized home network management</li> <li>User-defined bandwidth allocation</li> <li>Wi-Fi optimization &amp; Wi-Fi roaming</li> </ul>

COC V8	802.1p priority	□ IPv6/IPv4 dual stack, DS-	□ Wi-Fi O&M
	SP/WRR/SP+WRR	Lite and IPv6 SPI	ntelligent
	<ul> <li>Broadcast packet rate</li> <li>limitation</li> </ul>	Static/Default routes	identification and anti- interference
		Multiple services on one	
		WAN port	

Copyright © Huawei Technologies Co., Ltd. 2022. 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

Number | 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