

# 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	

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

## **Product Function**

Smart interconnection	Smart service	Smart O&M	Common O&M
<ul> <li>Smart Wi-Fi coverage</li> <li>SIP/H.248 auto-negotiation</li> <li>Any port any service</li> <li>Parental control</li> </ul>	<ul> <li>Scheduled Wi-Fi shutdown</li> <li>Smart Wi-Fi sharing: Portal/802.1x authentication; SoftGRE- based sharing</li> </ul>	<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>	<ul> <li>OMCI/Web UI/TR069</li> <li>Variable-length OMCI messages</li> <li>Dual-system software backup and rollback</li> </ul>
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></ul>	SPI firewall     Filtering based on MAC/IP/URL addresses  QoS	<ul> <li>PPPoE/Static IP/DHCP</li> <li>NAT/NAPT</li> <li>Port forwarding</li> <li>ALG, UPnP</li> </ul>	<ul> <li>Visualized home network management</li> <li>User-defined bandwidth allocation</li> <li>Wi-Fi optimization &amp; Wi-Fi roaming</li> </ul>
Indicator power saving	Ethernet port rate limitation	DDNS/DNS server/DNS client	

COC V8	802.1p priority	<ul> <li>IPv6/IPv4 dual stack, DS-</li> </ul>	Wi-Fi O&M
	<ul> <li>SP/WRR/SP+WRR</li> </ul>	Lite and IPv6 SPI	<ul> <li>intelligent</li> </ul>
Broadcast packet rate limitation	Broadcast packet rate		identification and anti-
	limitation		interference
		WAN port	

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#### Huawei Technologies Co., Ltd.

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

Website:http://www.huawei.com