

# Huawei OptiXstar EN8245X6s-8N Datasheet

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

## **Overview**

The Huawei OptiXstar EN8245X6s-8N is an XGS-PON and Wi-Fi 6 routing-type ONT. It uses the XGS-PON and Wi-Fi 6 technologys 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 2.5GE port, three 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



## **Device Parameters**

Operating temperature	0°C to +40°C	NNI	XGS-PON
Operating humidity	5% RH to 95% RH (non- condensing)	UNI	1x2.5GE+3xGE+2xPOTS+2.4 GHz/5GHz Wi-Fi 6+1USB
Power adapter input	100–240 V AC, 50/60 Hz	Optical connector	SC/APC
System power supply	12 V DC, 3 A	Indicators	Power/PON/LOS/LAN/2.5G LAN/TEL/USB/WLAN/WPS
Static power consumption	12.1 W	Dimensions	247.5mm x 216.5mm x 72mm (without pads)
Maximum power consumption	30 W	Weight	About 765 g
Antenna type	Internal antennas	Memory	128MB Flash, 512MB RAM

## **Interface Parameters**

XGS-PON port	POTS port	
<ul> <li>Class N1/N2/E1</li> <li>Receiver sensitivity: -28 dBm</li> <li>Wavelengths: US 1260-1280 nm, DS 1575-1580 nm</li> <li>Upstream and downlink rate: 9.953 Gbit/s upstream, 9.953 Gbit/s downstream</li> <li>Wavelength blocking filter (WBF)</li> <li>Flexible mapping between GEM Port and TCONT</li> <li>SN/Password/SN+Password/Bi-directional authentication based on OMCI</li> <li>Upstream and downstream FEC</li> </ul>	<ul> <li>Maximum ringer equivalence number (REN): 4</li> <li>G.711A/µ, G.729a/b and G.722 encoding/decoding</li> <li>T.30/T.38/G.711 fax mode</li> <li>DTMF</li> <li>Emergency calls (with the SIP protocol)</li> <li>USB port</li> <li>USB2.0</li> <li>FTP-based network storage</li> <li>File/Print sharing based on SAMBA</li> </ul>	
SR-DBA and NSR-DBA  WLAN	DLNA function  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>4 x 4 MIMO (2.4G)</li> <li>4 x 4 MIMO (5G)</li> <li>2.4G&amp;5G concurrent</li> <li>Antenna gain: 2 dBi</li> <li>Air interface rate: 1147 Mbit/s (2.4G), 4804 Mbit/s (5G)</li> <li>4096 QAM</li> <li>160MHz frequency bandwidth</li> <li>OFDMA</li> <li>UL/DL MU-MIMO</li> <li>DCM</li> <li>BSS Coloring</li> <li>Beamforming</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>GE port supports auto-adaptive 10 Mbit/s, 100 Mbit/s or 1000 Mbit/s</li> <li>2.5GE port supports auto-adaptive 1000 Mbit/s or 2500 Mbit/s</li> </ul>	

- Band steeringWPA3
- WMM/Multiple SSIDs/WPS

## **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> <li>Association of one account with two POTS ports</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>Neighboring AP scanning</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></ul>	SPI firewall     Filtering based on     MAC/IP/URL addresses	<ul><li>PPPoE/Static IP/DHCP</li><li>NAT/NAPT</li><li>Port forwarding</li></ul>	<ul> <li>Visualized home network management</li> <li>User-defined bandwidth allocation</li> <li>Wi-Fi optimization &amp; Wi-Fi roaming</li> <li>Wi-Fi O&amp;M</li> </ul>
Power saving	QoS	<ul> <li>ALG, UPnP</li> <li>DDNS/DNS server/DNS client</li> <li>IPv6/IPv4 dual stack, DS-Lite and IPv6 SPI</li> <li>Static/Default routes</li> <li>Multiple services on one WAN port</li> </ul>	
Indicator power saving	<ul> <li>Ethernet port rate limitation</li> <li>802.1p priority</li> <li>SP/WRR/SP+WRR</li> <li>Broadcast packet rate limitation</li> </ul>		

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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