

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 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 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
- 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	- Maximum ringer equivalence number (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)
	USB port
	- USB2.0 - FTP-based network storage - File/Print sharing based on SAMBA - DLNA function
WLAN	Ethernet port
- IEEE 802.11 b/g/n/ax (2.4G) - IEEE 802.11 a/n/ac/ax (5G) 4 × 4 MIMO (2.4G) 4 × 4 MIMO (5G) 2.4G&5G concurrent - Antenna gain: 2 dBi - Air interface rate: 1147 Mbit/s (2.4G), 4804 Mbit/s (5G) 4096 QAM 160MHz frequency bandwidth - OFDMA - UL/DL MU-MIMO - DCM - BSS Coloring - Beamforming	- 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 1000 Mbit/s 2.5GE port supports auto-adaptive 1000 Mbit/s or 2500 Mbit/s

- Band steering
- WPA3
- WMM/Multiple SSIDs/WPS

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 • Association of one account with two POTS ports	• 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	• OMCI/Web UI/TR069 • Variable-length OMCI messages • Dual-system software backup and rollback
Multicast	Security	Layer 3 features	Home network feature
• IGMP v2/v3 proxy/snooping • MLD v1/v2 snooping	• SPI firewall • Filtering based on MAC/IP/URL addresses	• 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	• Visualized home network management • User-defined bandwidth allocation • Wi-Fi optimization & Wi-Fi roaming • Wi-Fi O&M
Power saving	QoS		
• Indicator power saving	• Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR • Broadcast packet rate limitation		

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