

Huawei OptiXstar EG8245X6-8N-30

Datasheet 01

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

Overview

The Huawei OptiXstar EG8245X6-8N-30 is a GPON and Wi-Fi 6 routing-type ONT. It uses the GPON 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 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



Device Parameters

Operating temperature	0°C to +40°C	NNI	GPON
Operating humidity	5% RH to 95% RH (non-condensing)	UNI	4xGE+2xPOTS+2.4GHz/5GHz Wi-Fi 6+1xUSB
Power adapter input	100–240 V AC, 50/60 Hz	Optical connector	SC/APC
System power supply	12 V DC, 2 A	Indicators	Power/PON/LOS/LAN/TEL/USB/WLAN/WPS
Static power consumption	11.4 W	Dimensions	247.5mm x 216.5mm x 72mm (without pads)
Maximum power consumption	24 W	Weight	About 765 g
Antenna type	Internal antennas	Memory	128 MB Flash, 512 MB RAM

Interface Parameters

G-PON port <ul style="list-style-type: none"> Class B+ Receiver sensitivity: -27 dBm Overload optical power: -8 dBm Wavelengths: US 1310 nm, DS 1490 nm Wavelength blocking filter (WBF) of G.984.5 Flexible mapping between GEM Port and TCONT GPON: consistent with the SN or password authentication defined in G.984.3 Bi-directional FEC SR-DBA and NSR-DBA 	POTS port <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> USB2.0 FTP-based network storage File/Print sharing based on SAMBA DLNA function
WLAN <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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

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


Product Function

Smart interconnection	Smart service	Smart O&M	Common O&M
<ul style="list-style-type: none"> • Smart Wi-Fi coverage • SIP/H.248 auto-negotiation • Any port any service • Parental control 	<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 	<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 	<ul style="list-style-type: none"> • OMCI/Web UI/TR069 • Variable-length OMCI messages • Dual-system software backup and rollback
Multicast	Security	Layer 3 features	Home network feature
<ul style="list-style-type: none"> • IGMP v2/v3 proxy/snooping • MLD v1/v2 snooping 	<ul style="list-style-type: none"> • SPI firewall • Filtering based on MAC/IP/URL addresses 	<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 	<ul style="list-style-type: none"> • Visualized home network management • User-defined bandwidth allocation • Wi-Fi optimization & Wi-Fi roaming • Wi-Fi O&M
Power saving	QoS		
<ul style="list-style-type: none"> • Indicator power saving 	<ul style="list-style-type: none"> • Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR • Broadcast packet rate limitation 		

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