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&5GHz 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/USB/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+ • Receiver sensitivity: -27 dBm • Overload optical power: -8 dBm	• 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

• 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	• 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) • 2 × 2 MIMO (2.4G) • 2 × 2 MIMO (5G) • Antenna gain: 5 dBi • WMM/Multiple SSIDs/WPS • 2.4G&5G concurrent • Air interface rate: 574 Mbit/s (2.4G), 2402 Mbit/s (5G) • Beamforming • Band steering • DL OFDMA • DL MU-MIMO • 1024QAM • 160MHz frequency bandwidth • WPA3	• 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 • Auto-adaptive 10 Mbit/s, 100 Mbit/s or 1000 Mbit/s

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	• 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 • WLAN emulation	• 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	• Visualized home network management • User-defined bandwidth allocation • Wi-Fi optimization & Wi-Fi roaming
Power saving	**QoS**		
• Indicator power saving	• Ethernet port rate limitation		

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

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