

Huawei OptiXstar EG8145X6-10 Datasheet 02 (7dBi)

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, 1.5 A	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	128 MB Flash, 256 MB RAM		

Interface Parameters

GPON port	POTS port	
 Class B+ Receiver sensitivity: -27 dBm Overload optical power: -8 dBm Wavelengths: 1310 nm upstream, 1490 nm downstream 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 	 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 (2.4GHz) IEEE 802.11 a/n/ac/ax (5GHz) 2 x 2 MIMO (2.4GHz) 2 x 2 MIMO (5GHz) Antenna gain: 7 dBi* WMM/Multiple SSIDs/WPS 2.4G&5G concurrent Air interface rate: 574 Mbit/s (2.4GHz), 2402 Mbit/s (5GHz) Beamforming Band steering DL OFDMA DL MU-MIMO 1024QAM 	 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 	

- 160MHz frequency bandwidth
- WPA3

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 Power saving Indicator power saving COC V8 	 SPI firewall Filtering based on MAC/IP/URL addresses QoS Ethernet port rate limitation 802.1p priority SP/WRR/SP+WRR Broadcast packet rate limitation 	 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 intelligent identification and anti-interference

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^{*:} The 7 dBi antennas are applicable to scenarios where the transmit power is not limited. If the local laws and regulations stipulate that the transmit power must be lower than 31 dBm, the coverage performance of 7 dBi antennas may deteriorate compared with that of 5 dBi antennas in some scenarios. Select applicable products based on local laws and regulations.