



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
<ul style="list-style-type: none"> Class B+ Receiver sensitivity: -27 dBm Overload optical power: -8 dBm 	<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

<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> DTMF Emergency calls (with the SIP protocol)
WLAN	USB port
<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> USB2.0 FTP-based network storage File/Print sharing based on SAMBA DLNA function
	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 Auto-adaptive 10 Mbit/s, 100 Mbit/s or 1000 Mbit/s

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 	<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 WLAN emulation 	<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 	<ul style="list-style-type: none"> Visualized home network management User-defined bandwidth allocation Wi-Fi optimization & Wi-Fi roaming
Power saving	QoS		
<ul style="list-style-type: none"> Indicator power saving 	<ul style="list-style-type: none"> Ethernet port rate limitation 		

<ul style="list-style-type: none"> • COC V8 	<ul style="list-style-type: none"> • 802.1p priority • SP/WRR/SP+WRR • Broadcast packet rate limitation 	<ul style="list-style-type: none"> • IPv6/IPv4 dual stack, DS-Lite and IPv6 SPI • Static/Default routes • Multiple services on one WAN port 	<ul style="list-style-type: none"> • Wi-Fi O&M • intelligent identification and anti-interference
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