

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&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, 1A	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	128MB Flash, 256MB RAM		

Interface Parameters

GPON port	POTS port	
Class B+	Maximum ringer equivalence number (REN): 4	
Receiver sensitivity: -27 dBm	G.711A/μ, G.729a/b and G.722 encoding/decoding	
Overload optical power: -8 dBm	T.30/T.38/G.711 fax mode	

0	Wavelengths: US 1310 nm, DS 1490 nm	□ DTMF		
	Wavelength blocking filter (WBF) of G.984.5	Emergency calls (with the SIP protocol)		
	Flexible mapping between GEM Port and TCONT	USB port		
	GPON: consistent with the SN or password authentication defined in G.984.3	USB2.0 FTP-based network storage		
	Bi-directional FEC			
	SR-DBA and NSR-DBA	File/Print sharing based on SAMBA		
		DLNA function		
WL	AN	Ethernet port		
	IEEE 802.11 b/g/n/ax (2.4G)	Ethernet port-based VLAN tags and tag removal		
	IEEE 802.11 a/n/ac/ax (5G)	1:1 VLAN, N:1 VLAN, or VLAN transparent transmission		
	2 × 2 MIMO (2.4G)	□ QinQ VLAN		
	2 × 2 MIMO (5G)	Limit on the number of learned MAC addresses		
	Antenna gain: 5 dBi	MAC address learning		
	WMM/Multiple SSIDs/WPS	Auto-adaptive 10 Mbit/s, 100 Mbit/s or 1000 Mbit/s		
	2.4G&5G concurrent			
0	Air interface rate: 574 Mbit/s (2.4G), 2402 Mbit/s (5G)			
0	Beamforming			
	Band steering			
	DL OFDMA			
	DL MU-MIMO			
	1024QAM			
	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 	 SPI firewall Filtering based on MAC/IP/URL addresses QoS Ethernet port rate limitation 	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

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

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