

Huawei OptiXstar EG8145X6 Datasheet 02

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

Overview

The Huawei OptiXstar EG8145X6 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 4 GE ports, 1 POTS port, 1 USB port and 1 2.4G&5G Wi-Fi port.

- 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	4*GE+1*POTS+2.4G/5G Wi- Fi 6+2USB
Power adapter input	100–240 V AC, 50/60 Hz	Optical connector	SC/UPC
System power supply	11–14 V DC, 1.5 A	Indicators	Power/PON/LOS/LAN/TEL/US B/WLAN/WPS
Static power consumption	6 W	Weight	About 372 g
Maximum power consumption	18 W	Dimensions (H x W x D) (without external antenna and pads)	35 mm x 195 mm x 125 mm
Memory	128M Flash, 256M RAM		

Interface Parameters

GPON port	POTS port		
 Class B+ Receiver sensitivity: -27dBm ~ -29dBm Overload optical power: -8 dBm Wavelengths: US 1310 nm, DS 1490 nm 	 Maximum REN: 4 G.711A/µ, G.729a/b and G.722 encoding/decoding T.30/T.38/G.711 fax mode DTMF 		
 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 Type B (single-homing&dual-homing) 	 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 x 2 MIMO (2.4G) 2 x 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 	 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 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
 Power saving Indicator power saving COC V7 	 QoS Ethernet port rate limitation 802.1p priority SP/WRR/SP+WRR Broadcast packet rate limitation 		

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