

Huawei OptiXstar EG8145B7N-50 Datasheet 01

Huawei intelligent GPON and Wi-Fi 7 routing-type ONT

Overview

The Huawei OptiXstar EG8145B7N-50 is a GPON and Wi-Fi 7 routing-type ONT. It uses the GPON and Wi-Fi 7 technologies to implement ultra-broadband access, high performance and wide coverage for users. The high forwarding performance ensures the user experience of voice and data services, and provides customers with an ideal all-optical access solution and future-oriented service support capability.

It provides one 2.5GE port, three GE ports, one POTS port, one USB port and 2.4GHz&5GHz Wi-Fi 7 function.

- Next generation Wi-Fi 7 technology
- Smart service
- Smart interconnection
- Smart O&M



Device Parameters

Dimensions (H x W x D)	40 mm x 150 mm x 108 mm (without external antenna and pads)	Static power consumption	5 W
Weight	About 282 g	Maximum power consumption	14 W
Operating temperature	0°C to 40°C	NNI	GPON
Operating humidity	5% RH to 95% RH (non- condensing)	UNI	1x2.5GE+3xGE+1xPOTS+1x USB*+2.4GHz/5GHz Wi-Fi 7
Power adapter input	100–240 V AC, 50/60 Hz	Optical connector	SC/APC
System power supply	12 V DC, 1.5 A	Indicators	Power/PON/LOS/2.5GLAN/LA N2/LAN3/LAN4/TEL/USB/WL AN/WPS
Memory	128 MB Flash, 512 MB RAM	-	-

*: A plug-and-play USB port reserved for users.

Interface Parameters

POTS port	
 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 	
Ethernet port	
 1x2.5GE+3xGE 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 GE port supports auto-adaptive 10 Mbit/s, 100 Mbit/s or 1000 Mbit/s 2.5GE port supports auto-adaptive 10 Mbit/s, 100 Mbit/s, 	

DCM
BSS Coloring
Beamforming
Band steering
WPA3
MLO (Multi-Link Operation)
Multi-RU
WMM/Multiple SSIDs/WPS

Product Function

Smart interconnection	Smart service	Smart 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 Rogue ONT detection and isolation from the OLT Call emulation, and circuit test and loop-line test 	
Multicast IGMP v2/v3 snooping IGMP v2/v3 proxy MLD v1/v2 snooping	 Power saving Indicator power saving CoC v8 	 PPPoE/DHCP simulation testing Neighboring AP scanning 	
Security	Common O&M	Layer 3 features	
 SPI firewall Filtering based on MAC/IP/URL addresses Secure boot 	 OMCI/Web UI/TR069 Variable-length OMCI messages Dual-system software backup and rollback 	 PPPoE/Static IP/DHCP NAT/NAPT Port forwarding ALG, UPnP 	
QoS Ethernet port rate limitation 802.1p priority SP/WRR/SP+WRR Broadcast packet rate limitation 	 Home network feature Visualized home network management User-defined bandwidth allocation Wi-Fi optimization & Wi-Fi roaming Wi-Fi O&M 	 DDNS/DNS server/DNS client IPv6/IPv4 dual stack, DS-Lite and IPv6 SPI Static/Default routes Multiple services on one WAN port 	

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Huawei Technologies Co., Ltd.

Address:Huawei Industrial Base Bantian, Longgang Shenzhen 518129 People's Republic of China

Website:http://www.huawei.com

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