

EG8145B7N-50 Datasheet-draft

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

Note: This document is for project promotion only. Specifications may change in the formal release. The actual values prevail.

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



D NOTE

The appearance shown in this document may be different from the actual appearance of the product. The actual product prevails.

Device Parameters

Dimensions (H x W x D)	40 mm x 150 mm x 108 mm	Memory	128 MB Flash, 256 MB RAM
(without external antenna	(TBD)		

and pads)			
Operating temperature	0°C to 40°C	NNI	GPON
Operating humidity	5% RH to 95% RH (non- condensing)	UNI	1x2.5GE+3xGE+1xPOTS+1 xUSB+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 (TBD)	Indicators	Power/PON/LOS/LAN1/LAN 2/LAN3/2.5GLAN/TEL/USB/ WLAN/WPS

Interface Parameters

GPON port	POTS port
 Class B+ Receiver sensitivity: -27 dBm Overload optical power: -8 dBm 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 	 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/be (2.4GHz) IEEE 802.11 a/n/ac/ax/be (5GHz) 2×2 MIMO (2.4GHz&5GHz) Antenna gain: 7 dBi Air interface rate: 688 Mbit/s (2.4GHz), 2882 Mbit/s (5GHz) 4096 QAM 160 MHz frequency bandwidth OFDMA MU-MIMO DCM BSS Coloring Beamforming Band steering WPA3 MLO (Multi-Link Operation) Multi-RU WMM/Multiple SSIDs/WPS 	 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, 1000 Mbit/s, 1000 Mbit/s

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	Power saving	PPPoE/DHCP simulation testing
 IGMP v2/v3 snooping IGMP v2/v3 proxy MLD v1/v2 snooping 	Indicator power savingCoC v8	 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	Home network feature	DDNS/DNS server/DNS client
 Ethernet port rate limitation 802.1p priority SP/WRR/SP+WRR Broadcast packet rate limitation 	 Visualized home network management User-defined bandwidth allocation Wi-Fi optimization & Wi-Fi roaming Wi-Fi O&M 	 IPv6/IPv4 dual stack, DS-Lite and IPv6 SPI Static/Default routes Multiple services on one WAN port

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