

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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