Huawei OptiXstar EN8145X6Ns Datasheet 01

Huawei intelligent XGS-PON and Wi-Fi 6 routing-type ONT

Overview

Huawei OptiXstar EN8145X6Ns is an XGS-PON and Wi-Fi 6 routing-type ONT. It uses the XGS-PON and Wi-Fi 6 technologys 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 4 GE ports, 1 POTS port, 1 USB port and 1 2.4GHz&5GHzWi-Fi 6 port.

- Next generation Wi-Fi 6 technology
- Smart service
- Smart interconnection
- Smart O&M

Device Parameters

Dimensions	230mm x 156mm x 35mm (without external antenna and pads)	**System power supply**	12 V DC, 2 A
Weight	About 570 g	**Static power consumption**	8 W
Operating temperature	0°C to 40°C	**Maximum power consumption**	22 W
Operating humidity	5% RH to 95% RH (non-condensing)	**NNI**	XGS-PON
Power adapter input	170 to 240 V AC, 50/60 Hz	**UNI**	4xGE+1xUSB+1x POTS+2.4GHz&5GHz Wi-Fi 6
Memory	128M flash, 512M RAM	**Optical connector**	SC/APC
Indicators	Power/PON/LOS/LAN/TEL/USB/WLAN/WPS		

Interface Parameters

XGS-PON port	**POTS port**
- Class N1/N2/E1 - Receiver sensitivity: -28 dBm - Wavelengths: US 1260-1280 nm, DS 1575-1580 nm - Wavelength blocking filter (WBF) - Flexible mapping between GEM Port and TCONT - SN/Password/SN+Password/Bi-directional authentication based on OMCI - Upstream and downstream FEC - SR-DBA and NSR-DBA 9.95328 Gbit/s upstream, 9.95328 Gbit/s downstream - Type B (single-homing&dual-homing)	- Maximum 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 (2.4GHz) - IEEE 802.11 a/n/ac/ax (5GHz) 2×2 MIMO (2.4GHz&5GHz) - Antenna gain: 5 dBi - WMM (Wi-Fi Multi Media) - Multiple SSIDs - WPS 2.4GHz/5GHzconcurrent - Air interface rate: 2. 4GHz: 574 Mbit/s; 5GHz: 2402 Mbit/s - Beamforming - Band steering - DL MU-MIMO 1024QAM	- 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

• 160MHz 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	• 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	**QoS**		
• Indicator power saving • COC V7.1	• Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR • Broadcast packet rate limitation		

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