

Huawei OptiXstar EN8145X6 Datasheet 03

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

Overview

The Huawei OptiXstar EN8145X6 is an XG-PON and Wi-Fi 6 routing-type ONT. It uses the XG-PON and Wi-Fi 6 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 4 GE ports, 1 POTS port, 1 USB port and 1 2.4G&5G Wi-Fi 6 port.

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



Device Parameters

Operating temperature	0°C to 40°C	NNI	XG-PON
Operating humidity	5% RH to 95% RH (non-condensing)	UNI	4*GE+1*POTS+2.4G/5G Wi-Fi 6+1USB
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	8 W	Weight	About 400 g
Maximum power consumption	18 W	Dimensions (H x W x D) (without external antenna and pads)	40 mm x 185 mm x 120 mm
Memory	128M Flash, 256M RAM		

Interface Parameters

<p>XG-PON port</p> <ul style="list-style-type: none"> • Class N1/N2a/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 • 2.5 Gbit/s upstream, 10 Gbit/s downstream • Type B (single-homing & dual-homing) 	<p>POTS port</p> <ul style="list-style-type: none"> • 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) <p>USB port</p> <ul style="list-style-type: none"> • USB2.0 • FTP-based network storage • File/Print sharing based on SAMBA • DLNA function
<p>WLAN</p> <ul style="list-style-type: none"> • IEEE 802.11 b/g/n/ax (2.4G) • IEEE 802.11 a/n/ac/ax (5G) • 2 × 2 MIMO (2.4G) • 2 × 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 • WPA3 	<p>Ethernet port</p> <ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • Smart Wi-Fi coverage 	<ul style="list-style-type: none"> • Scheduled Wi-Fi 	<ul style="list-style-type: none"> • IPTV video quality 	<ul style="list-style-type: none"> • OMCI/Web UI/TR069

<ul style="list-style-type: none"> SIP/H.248 auto-negotiation Any port any service Parental control 	<ul style="list-style-type: none"> shutdown Smart Wi-Fi sharing: Portal/802.1x authentication; SoftGRE-based sharing 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Variable-length OMCI messages Dual-system software backup and rollback
Multicast	Security	Layer 3 features	Home network feature
<ul style="list-style-type: none"> IGMP v2/v3 proxy/snooping MLD v1/v2 snooping 	<ul style="list-style-type: none"> SPI firewall Filtering based on MAC/IP/URL addresses 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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		
<ul style="list-style-type: none"> Indicator power saving COC V7 	<ul style="list-style-type: none"> Ethernet port rate limitation 802.1p priority SP/WRR/SP+WRR Broadcast packet rate limitation 		

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