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

Quick Specification

Table 1 shows the Quick Specification.

Model	OptiXstar EN8145X6
Dimensions (W x D x H)	40 mm x 185 mm x 120 mm (without external antenna and pads)
Weight	About 400 g
Operating Temperature	0°C to 40°C
Operating Humidity	5% RH to 95% RH (non-condensing)
Power Adapter Input	100–240 V AC, 50–60 Hz
System Power Supply	11–14 V DC, 1.5 A
Static Power Consumption	8 W
Maximum Power Consumption	18 W
NNI	XG-PON
UNI	4*GE+1*POTS+2.4G/5G Wi-Fi6+1USB
Indicators	Power/PON/LOS/LAN/TEL/USB/WLAN/WPS
Memory	128 MB Flash, 256 MB RAM

Figure 1 shows the appearance of OptiXstar EN8145X6.

Product Details

Port Parameters

XG-PON Port	● SC/UPC ● 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
Ethernet Port	● 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
POTS Port	● 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	● 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 concurrency ● 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

Function List

Smart Interconnection	● Smart Wi-Fi coverage ● SIP/H.248 auto-negotiation ● Any port any service ● Parental control
Smart Service	● Scheduled Wi-Fi shutdown ● Smart Wi-Fi sharing: Portal/802.1x authentication; SoftGRE-based sharing
Smart O&M	● 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
Layer 3 Features	● 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
Security	● SPI firewall
	● Filtering based on MAC/IP/URL addresses
Multicast	● IGMP v2/v3 proxy/snooping
	● MLD v1/v2 snooping
Common O&M	● OMCI/Web UI/TR069
	● Variable-length OMCI messages
	● Dual-system software backup and rollback
Power Saving	● Indicator power saving
	● COC V7.1
QoS	● Ethernet port rate limitation
	● 802.1p priority
	● SP/WRR/SP+WRR
	● Broadcast packet rate limitation

Get More Information

Do you have any question about the OptiXstar EN8145X6?

Contact us now via info@hi-network.com.

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