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

Quick Specification

Table 1 shows the Quick Specification.

Model	OptiXstar EG8145X6
Dimensions (H x W x D)	35 mm x 195 mm x 125 mm (without external antenna and pads)
Weight (Without Power Adapter)	About 372 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	6 W
Maximum Power Consumption	18 W
Memory	128M Flash, 256M RAM
NNI	GPON
UNI	4*GE+1*POTS+2.4G/5G Wi-Fi 6+1USB
Optical Connector	SC/APC
Indicators	Power/PON/LOS/LAN/TEL/USB/WLAN/WPS

Figure 1 shows the appearance of OptiXstar EG8145X6.

Product Details

Interface Parameters

GPON 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 ● Type B (single-homing & dual-homing)
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 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

Product Function

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
Common O&M	● OMCI/Web UI/TR069
	● Variable-length OMCI messages
	● Dual-system software backup and rollback
Multicast	● IGMP v2/v3 proxy/snooping
	● MLD v1/v2 snooping
Security	● SPI firewall
	● Filtering based on MAC/IP/URL addresses
Power Saving	● Indicator power saving

	● COC V7
QoS	● Ethernet port rate limitation ● 802.1p priority ● SP/WRR/SP+WRR ● Broadcast packet rate limitation
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
Home Network Feature	● Visualized home network management ● User-defined bandwidth allocation ● Wi-Fi optimization & Wi-Fi roaming ● Wi-Fi O&M ● intelligent identification and anti-interference

Get More Information

Do you have any question about the OptiXstar EG8145X6?

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

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