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#### **Overview**

The Huawei OptiXstar EG8147X6 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, 1CATV 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 EG8147X6
Dimensions (H x W x D)	35 mm x 220 mm x 145 mm (without external antenna and pads)
Weight (Without Power Adapter)	Less than 600 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	12.1 W
Maximum Power Consumption	18 W
Memory	128MB Flash, 256MB RAM
NNI	GPON
UNI	4*GE+1*POTS+1CATV+2.4G/5G Wi-Fi 6+1USB
Optical Connector	SC/APC
Indicators	Power/PON/LOS/LAN/TEL/USB/WLAN/WPS



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Figure 1 shows the appearance of OptiXstar EG8147X6.



### **Product Details**

#### **Interface Parameters**

	• Class B+
GPON Port	• Receiver sensitivity: -27dBm ~ -29dBm
	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-based VLAN tags and tag removal
	• 1:1 VLAN, N:1 VLAN, or VLAN transparent transmission
Ethernet Port	• QinQ VLAN
Ethernet Fort	• Limit on the number of learned MAC addresses
	MAC address learning
	• Auto-adaptive 10 Mbit/s, 100 Mbit/s or 1000 Mbit/s
	• Maximum REN: 4
	• G.711A/μ, G.729a/b and G.722 encoding/decoding
POTS Port	• T.30/T.38/G.711 fax mode
	• DTMF
	• Emergency calls (with the SIP protocol)
USB Port	• USB2.0
USB FOR	FTP-based network storage



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	File/Print sharing based on SAMBA
	DLNA function
	• Frequency Range 54 MHz to 1000 MHz
	Output resistance 75 ohms
CATV Port	• Received average optical power: -8dBm to +2dBm
	• RF output power: ≥17dBmV/Ch (With RF source analog channel power input = 20dBmV/ch, and 40 analog / 63
	digital channels (4.3% OMI analog, 2.15% digital))
	● 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
WLAN	• 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 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; SoftGREbased 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
• IGMP v2/v3 proxy/snooping
• MLD v1/v2 snooping
SPI firewall
• Filtering based on MAC/IP/URL addresses
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Power Saving	Indicator power saving
	● COC V7
QoS	Ethernet port rate limitation
	• 802.1p priority
	• SP/WRR/SP+WRR
	Broadcast packet rate limitation
	PPPoE/Static IP/DHCP
	• NAT/NAPT
	Port forwarding
Laura 2 Fastura	• ALG, UPnP
Layer 3 Features	DDNS/DNS server/DNS client
	• IPv6/IPv4 dual stack, DSLite 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 EG8147X6?

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

## **Specification**

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1010101	• DTMF
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• 160MHz frequency bandwidth
• WPA3

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