

Huawei Enterprise gigabit Wi-Fi 6 routing-type ONT W826E

Overview

Huawei OptiXstar W826E is an enterprise gigabit Wi-Fi ONT. It supports ultra-broadband access through the optical/electrical composite cable. It solves the problem that terminals cannot obtain power. It provides users with voice, gigabit network ports, and gigabit dual-band Wi-Fi 6 access modes.

- Next generation Wi-Fi 6 technology
- Supports optical fiber upstream transmission.
- Optical/electrical composite cable PoF power supply
- Fit/FAT management mode
- Strong anti-interference, wide coverage, and network self-healing



NOTE

The schematic diagram in this document may differ from the actual product.

Device Parameters

Dimensions (H x W x D)	230 mm x 230 mm x 35 mm	Weight (without adapter)	About 702 g
Power supply to the entire system	<ul style="list-style-type: none"> Adapter: 12V DC, 2A PoF: 48 V DC, 0.5 A <p>NOTE The copper cable in the optical/electrical composite cable uses the PoE protocol to supply power and does not transmit data.</p>	Rated input range of the power adapter	100 - 240V AC, 50/60 Hz
Power consumption	<ul style="list-style-type: none"> Static power consumption: 8.6 W Maximum power consumption: 21.6 W 	Buttons	Reset button
Optical fiber interface	SC/UPC	Antenna Type	Built-in antenna
Storage	128 MB FLASH, 256 MB RAM	Installation Mode	Ceiling-mounted or wall-mounted
Operating Ambient Temperature	-10°C - 45°C	Operating ambient humidity	5% RH to 95% RH, non-condensing
Degree of protection	IP20	Surge Protection Specifications	<ul style="list-style-type: none"> PoF: 4 kV in common mode, 1.5 kV in differential mode LAN: common mode 2.5 kV POTS: common mode 2.5 kV AC power supply: 6 kV in common mode and 6 kV in differential mode
Interface	<ul style="list-style-type: none"> Network side: XGS-PON User side: 4*GE+1*POTS+2.4GHz&5GHz Wi-Fi 6 	Indicators	One running indicator
Certification	SRRC/CE/Wi-Fi Alliance/CCC/MIIT network access		

Wi-Fi Specification

Support Protocols	<ul style="list-style-type: none"> IEEE 802.11 b/g/n/ax(2.4GHz) IEEE 802.11 a/n/ac/ax(5GHz) 	MIMO	2x2 MIMO (2.4GHz&5GHz)
Antenna gain	2dBi	Air interface rate	574 Mbps (2.4GHz) 2402 Mbps (5GHz)
Maximum number of SSIDs on the radio	4	Maximum number of users on the radio	A maximum of 64 per frequency band
Maximum transmit power on the radio	2.4GHz: 26dBm 5GHz: 29dBm	Others	1024-QAM, 60MHz bandwidth, WPA3, DL MU MIMO

Interface Parameter

XGS-PON port	Gigabit Ethernet port
<ul style="list-style-type: none"> Interface type: SC/UPC Transmission rate: 9.953 Gbit/s in the downlink and 9.953 Gbit/s in the uplink Receiver sensitivity: -28 dBm Overload optical power: -9 dBm Type B (single-homing&dual-homing) <p>NOTE</p> <p>If the optical power is greater than the overload optical power, the device may be damaged. In this case, connect an optical attenuator.</p>	<ul style="list-style-type: none"> MAC address limit MAC address learning Gigabit Ethernet ports support 10 Mbit/s, 100 Mbit/s, and 1000 Mbit/s auto-sensing

Product Function


Network management	Smart service	Smart O&M	Layer 3 features
<ul style="list-style-type: none"> Visualized management User-defined bandwidth allocation Wi-Fi Optimization & Wi-Fi Roaming Wi-Fi O&M Intelligent identification and anti-jamming 	<ul style="list-style-type: none"> Anti-squatter Scheduled Wi-Fi shutdown Smart Wi-Fi sharing: Portal/802.1x authentication; SoftGRE-based sharing 	<ul style="list-style-type: none"> IPTV video quality diagnosis (VMOS&eMDI) Rogue ONT detection and isolation from the OLT Call emulation, and circuit test and loop-line test PPPoE/DHCP simulation testing One-click diagnosis (Web) 	<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
	<p>Power saving</p> <ul style="list-style-type: none"> Indicator power saving COC V7.1 		
	<p>Security</p> <ul style="list-style-type: none"> SPI firewall Anti-DoS attack Filtering based on MAC/IP/URL addresses 		
WLAN Security	Common O&M	QoS	Smart interconnection
<ul style="list-style-type: none"> Open system authentication WEP authentication/encryption is supported. The encryption word length is 64-bit or 128-bit WPA2-PSK authentication/encryption (WPA2 Personal Edition) WPA2-802.1X authentication/encryption (WPA2 Enterprise Edition) WPA3-SAE 	<ul style="list-style-type: none"> OMCI/Web UI/TR069 Variable-length OMCI messages Dual-system software backup and rollback 	<ul style="list-style-type: none"> Priority-based data processing and forwarding based on the mapping and priority scheduling rules of Wi-Fi Multimedia (WMM) standards Supports WMM power saving mode and Airtime scheduling Supports Airtime scheduling 	<ul style="list-style-type: none"> Smart Wi-Fi coverage SIP/H.248 auto-negotiation Any port any service

<p>authentication and encryption (WPA3 personal edition)</p> <ul style="list-style-type: none"> • WPA3-802.1X authentication/encryption (WPA3 Enterprise Edition) • Supports WPA-WPA2 hybrid authentication. Supports WPA2-WPA3 hybrid authentication • Supports 802.1X authentication, MAC address authentication, and Portal authentication. Supports Wi-Fi management frame encryption. 			
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