

W626E Datasheet

Wi-Fi 6 ONU for Campus Gigabit Optical Access

Overview

Huawei OptiXstar W626E is a Wi-Fi 6 ONU for campus gigabit optical access. It provides 4 GE ports, 1 POTS port, 1 USB port, and 1 2.4G&5G Wi-Fi. Huawei OptiXstar W626E implements ultra-broadband access for home users in campus networking scenarios such as hotels, dormitories, and offices. Its high-performance forwarding capability effectively ensures voice, wired data, wireless Wi-Fi, and HD video service experience. Provides high-speed and simple network access experience for customers.

- Next generation Wi-Fi 6 technology
- Fit/FAT management mode
- Smart service
- Smart interconnection
- Smart O&M



Device Parameters

Operating temperature	0°C to 40°C	NNI	GPON
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/APC
System power supply	12 V DC, 1.5 A	Indicators	Power/PON/LOS/LAN/TEL/USB/W LAN/WPS
Maximum power consumption	18 W	Weight	About 650 g
Dimensions (H x W x D)	227.5 mm x 165 mm x 36 mm (without the base) 237.5 mm x 172.5 mm x 105 mm (with the base)	Antenna	Built-in antenna
Memory	128 M Flash, 256 M RAM	Installation mode	Desktop or wall mounting
Certification	SRRC/CE/Wi-Fi Alliance/CCC/MIIT network access	Surge Protection Specifications	<ul style="list-style-type: none"> AC power supply: 6 kV in common mode and 4 kV in differential mode ETH: common mode 2.5 kV POTS: common mode: 2.5 kV

Interface Parameters

GPON port	POTS port
<ul style="list-style-type: none"> Class B+ Receiver sensitivity: -27dBm 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 Authentication mode: Password Bi-directional FEC SR-DBA and NSR-DBA Type B (single-homing&dual-homing) 	<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)
	USB port
	<ul style="list-style-type: none"> USB2.0
2.4G&5G Wi-Fi	Ethernet port
<ul style="list-style-type: none"> IEEE 802.11 b/g/n/ax (2.4GHz) IEEE 802.11 a/n/ac/ax (5GHz) 2 × 2 MIMO (2.4GHz&5GHz) Antenna gain: 2 dBi 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: 27dBm(2.4GHz), 27dBm(5GHz) 	<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

- WMM (Wi-Fi Multi Media), Multiple SSIDs, WPS
- 2.4G&5G concurrent
- Air interface rate: 574 Mbit/s (2.4GHz), 2402 Mbit/s (5GHz)
- Beamforming
- Band steering
- DL OFDMA
- DL MU-MIMO
- 1024QAM
- 160MHz frequency bandwidth
- WPA3

Product Function


Network management			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 • Tunnel data forwarding using control and provisioning of wireless access points (CAPWAP) in FIT mode • Centralized Wi-Fi 6 ONU management and maintenance using the built-in AC of an OLT in FIT mode 			<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
Smart service	Smart interconnection	Smart O&M	
<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"> • Smart Wi-Fi coverage • SIP/H.248 auto-negotiation • Any port any service • Parental control 	<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) 	
Multicast	QoS	Common O&M	Security
<ul style="list-style-type: none"> • IGMP v2/v3 snooping • IGMP v2/v3 proxy • MLD v1/v2 snooping 	<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"> • OMCI/Web UI/TR069 • Variable-length OMCI messages • Dual-system software backup and rollback 	<ul style="list-style-type: none"> • SPI firewall • Anti-DoS attack • Filtering based on MAC/IP/URL addresses • Supports 802.1X authentication

WLAN Security	Power saving
<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 authentication and encryption (WPA3 personal edition) • WPA3-802.1X authentication/encryption (WPA3 Enterprise Edition) • Supports WPA-WPA2 hybrid authentication. Supports WPA2-WPA3 hybrid authentication • Supports 802.1X authentication and MAC address authentication. • Supports Wi-Fi management frame encryption. 	<ul style="list-style-type: none"> • Indicator power saving • COC V7.1

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