

## Overview

The Huawei OptiXstar W826E is an enterprise XGS-PON and Wi-Fi 6 Optical Network Unit (ONU). It supports ultra-broadband access through the optical/electrical composite cable. This directly addresses the issue of terminals being unable to adequately obtain power. The ONU also provides users with voice services, 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

## Quick Specification

Table 1 shows the Quick Specification.

Model	OptiXstar W826E
Dimensions (H x W x D)	230 mm × 230 mm × 35 mm
Weight	About 702 g
Operating Ambient Temperature	-10°C - 45°C
Operating Ambient Humidity	5% RH to 95% RH, non-condensing
Rated Input Range of The Power Adapter	100 - 240V AC, 50/60 Hz
Power Supply to The Entire System	<ul style="list-style-type: none"> <li>• Adapter: 12V DC, 2A</li> <li>• PoF: 48 V DC, 0.5 A</li> </ul>
Static Power Consumption	8.6 W
NNI	XGS-PON
UNI	4*GE+1*POTS+2.4GHz&5GHz WiFi 6
Optical Fiber Interface	SC/UPC
Indicators	One running indicator
Antenna Type	Built-in antenna
Storage	128 MB FLASH, 256 MB RAM
Surge Protection Specifications	<ul style="list-style-type: none"> <li>• PoF: 4 kV in common mode, 1.5 kV in differential mode</li> <li>• LAN: common mode 2.5 kV</li> <li>• POTS: common mode 2.5 kV</li> <li>• AC power supply: 6 kV in common mode and 6 kV in differential mode</li> </ul>

Figure 1 shows the appearance of OptiXstar W826E.



## Product Details

### Interface Parameters

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

### Wi-Fi Specification

Support Protocols	<ul style="list-style-type: none"> <li>• IEEE 802.11 b/g/n/ax(2.4GHz)</li> <li>• IEEE 802.11 a/n/ac/ax(5GHz)</li> </ul>
MIMO	2×2 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

## Product Function

Network Management	<ul style="list-style-type: none"> <li>• Visualized management</li> <li>• User-defined bandwidth allocation</li> <li>• Wi-Fi Optimization &amp; Wi-Fi Roaming</li> <li>• Wi-Fi O&amp;M</li> <li>• Intelligent identification and anti-jamming</li> </ul>
Smart Service	<ul style="list-style-type: none"> <li>• Anti-squatter</li> <li>• Scheduled Wi-Fi shutdown</li> <li>• Smart Wi-Fi sharing: Portal/802.1x authentication; SoftGRE-based sharing</li> </ul>
Power Saving	<ul style="list-style-type: none"> <li>• Indicator power saving</li> <li>• COC V7.1</li> </ul>
Security	<ul style="list-style-type: none"> <li>• SPI firewall</li> <li>• Anti-DoS attack</li> <li>• Filtering based on MAC/IP/URL addresses</li> <li>• Supports 802.1X authentication</li> </ul>
Smart O&M	<ul style="list-style-type: none"> <li>• IPTV video quality diagnosis (VMOS &amp; eMDI)</li> <li>• Rogue ONT detection and isolation from the OLT</li> <li>• Call emulation, and circuit test and loop-line test</li> <li>• PPPoE/DHCP simulation testing</li> <li>• One-click diagnosis (Web)</li> </ul>
Multicast	<ul style="list-style-type: none"> <li>• IGMP v2/v3 snooping</li> <li>• IGMP v2/v3 proxy</li> <li>• MLD v1/v2 snooping</li> </ul>
Layer 3 Features	<ul style="list-style-type: none"> <li>• PPPoE/Static IP/DHCP</li> <li>• NAT/NAPT</li> <li>• Port forwarding</li> <li>• ALG, UPnP</li> <li>• DDNS/DNS server/DNS client</li> <li>• IPv6/IPv4 dual stack, DSLite and IPv6 SPI</li> <li>• Static/Default routes</li> <li>• Multiple services on one WAN port</li> </ul>
WLAN Security	<ul style="list-style-type: none"> <li>• Open system authentication</li> <li>• WEP authentication/encryption is supported. The encryption word length is 64-bit or 128-bit</li> <li>• WPA2-PSK authentication/encryption (WPA2 Personal Edition)</li> <li>• WPA2-802.1X authentication/encryption (WPA2 Enterprise Edition)</li> <li>• WPA3-SAE authentication and encryption (WPA3 personal edition)</li> <li>• WPA3-802.1X authentication/encryption (WPA3 Enterprise Edition)</li> <li>• Supports WPA-WPA2 hybrid authentication.</li> </ul>





	<ul style="list-style-type: none"> <li>• Supports WPA2-WPA3 hybrid authentication.</li> <li>• Supports 802.1X authentication, MAC address authentication, and Portal authentication.</li> <li>• Supports Wi-Fi management frame encryption.</li> </ul>
Common O&M	<ul style="list-style-type: none"> <li>• OMCI/Web UI/TR069</li> <li>• Variable-length OMCI messages</li> <li>• Dual-system software backup and rollback</li> </ul>
Smart Interconnection	<ul style="list-style-type: none"> <li>• Smart Wi-Fi coverage</li> <li>• SIP/H.248 autonegotiation</li> <li>• Any port any service</li> </ul>
QoS	<ul style="list-style-type: none"> <li>• Priority-based data processing and forwarding based on the mapping and priority scheduling rules of Wi-Fi Multimedia (WMM) standards</li> <li>• Supports WMM power saving mode and Airtime scheduling</li> <li>• Supports Airtime scheduling</li> </ul>

## Get More Information

Do you have any question about the OptiXstar W826E?

Contact us now via [info@hi-network.com](mailto:info@hi-network.com).

## Specification

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Rated Input Range of The Power Adapter	100 - 240V AC, 50/60 Hz
Power Supply to The Entire System	<ul style="list-style-type: none"> <li>• Adapter: 12V DC, 2A</li> <li>• PoF: 48 V DC, 0.5 A</li> </ul> <p>NOTE: The copper cable in the optical/electrical composite cable uses the PoE protocol to supply power and does not transmit data.</p>
Static Power Consumption	8.6 W
Maximum Power Consumption	21.6 W
Buttons	Reset button
NNI	XGS-PON
UNI	4*GE+1*POTS+2.4GHz&5GHz WiFi 6
Optical Fiber Interface	SC/UPC



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Indicators	One running indicator
Antenna Type	Built-in antenna
Storage	128 MB FLASH, 256 MB RAM
Installation mode	Ceiling-mounted or wall-mounted
Certification	SRRC/CE/Wi-Fi Alliance/CCC/MIIT network access
Degree of protection	IP20
Surge Protection Specifications	<ul style="list-style-type: none"> <li>• PoF: 4 kV in common mode, 1.5 kV in differential mode</li> <li>• LAN: common mode 2.5 kV</li> <li>• POTS: common mode 2.5 kV</li> <li>• AC power supply: 6 kV in common mode and 6 kV in differential mode</li> </ul>
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