ZP-8414DWH

WiFi 6 AX3000 DualBand VolP GPON Router

802.11ax2.4GHz	574Mbps
802.11ax5GHz	2402Mbps

IPv4 & IPv6
Dual stack

E/GPON Dual
Mode

Routing & Bridging
Mode

Dual Band 4*Antennas
AX 3000Mbps

Introduction

ZP-8414DWH is 4GE+POTS+AX3000 with USB optional XPON(GPON and GEPON dual mode) HGU ONU.The device is fully comply with ITU-T G.984/G988 and IEEE802.3ah. The equipment integrates the reliability, maintainability and security design of carrier-grade level, and provides customers with the last

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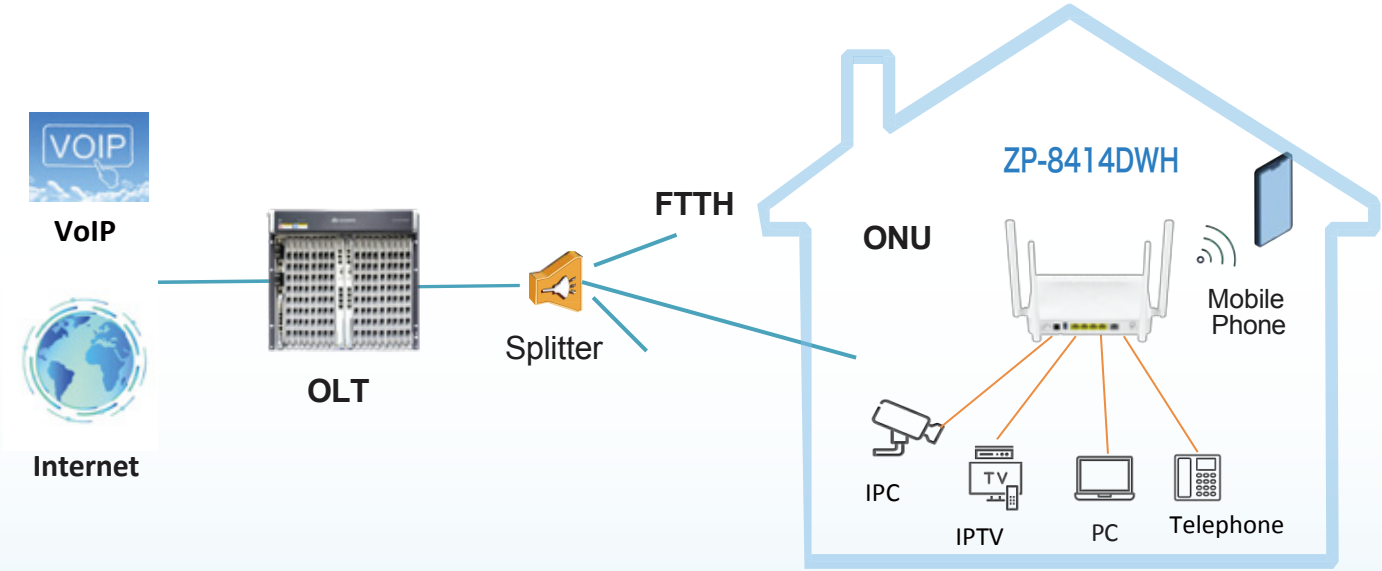
kilometer of broadband access to residential and corporate customers. It can also be applied to a strictly temperature environment, and can work stable for longtime without service interruption.

ZP-8414DWH is interoperable with all brands of OLT and is Easy to install, provisioning and maintenance. The device can identify the working mode of the OLT to automatically complete the switch between GPON and EPON, The device can be freely switched between bridge and routing modes, and supports PPPoE dial-up and IPv6 functions in routing mode to meet the needs of different scenarios.

Application Chart



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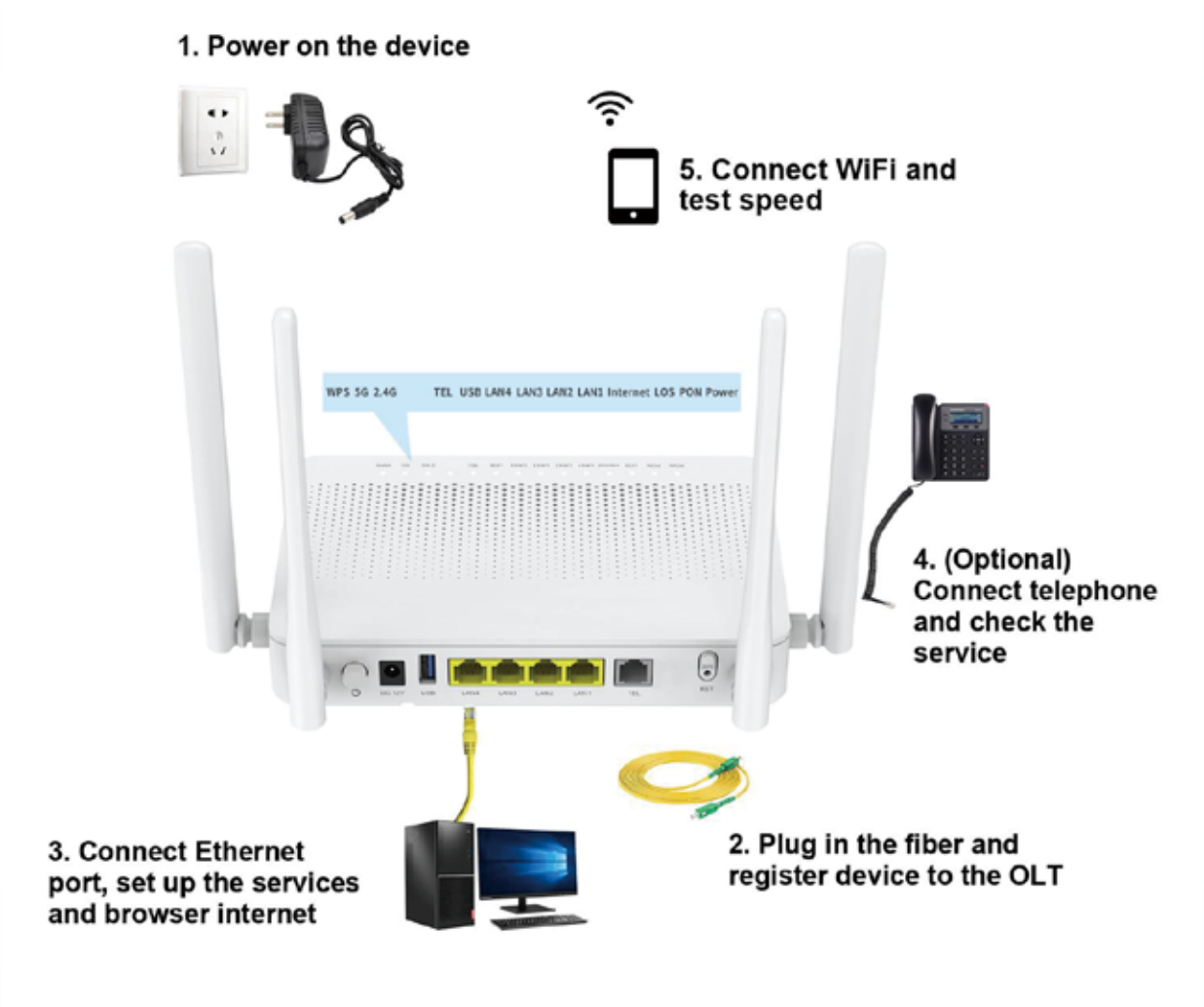
Product Interface and LED



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Product Parameters

Hardware Parameter	
Dimension	246mm×157mm×38mm（L×W×H）
Net weight	355g
Operating condition	• Operating temperature: -10 ~ +50°C • Operating humidity: 10 ~ 90% (non-condensing)
Storing condition	• Storage temperature: -40 ~ +70°C • Storage humidity: 5 ~ 95% (non-condensing)
Power adapter	DC 12V/1.5A, external AC-DC power adapter
Interfaces	XPON+4×GE+USB3.0+1×POTS+WiFi AX3000
Buttons	Reset,WPS
Indicators	Power, PON, LOS, Internet, LAN1-4, USB, TEL,2.4G, 5G, WPS

Interface Parameter	
PON interface	• 1XPON port(EPON PX20+ and GPON Class B+) • PON standard: GEPON IEEE802.3ah, GPON ITU-T G.984 • SC single mode, SC/UPC or SC/APC connector • TX optical power: 0～4dBm(EPON) or 0.5～5dBm(GPON) • RX sensitivity: EPON: -27dBm GPON: -28dBm • Overload optical power: -3dBm(EPON) or - 8dBm(GPON) • Transmission distance: 20KM max • Wavelength: TX 1310nm, RX1490nm
LAN interface	• 4×GE Auto-negotiation RJ45 ports
POTS interface	• 1×RJ11 Connector
USB interface	• 1×USB 3.0
WiFi interface	• Compliant with IEEE802.11b/g/n/ac/ax • WiFi: 2.4GHz 2× 2, 5.8GHz 2× 2 MIMO • 4*5dBi external antennas • Multiple SSID

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Software Features

PON	• XPON Dual Mode • SN and LOID+Password multiple registration methods
Layer2	• Support VLAN transparent/tag/translate/trunk • Support Layer 2 802.1Q VLAN, 802.1P QoS, ACL etc
Layer3	• IPv4, IPv6 and IPv4/IPv6 dual stack • Support bridge, router & bridge/router mixed mode • DHCP v4/v6 Client/Server, PPPoE & Static • Support Static Routing • Support hardware NAT
Multicast	• Support IGMP v2 and MLD proxy/ snooping • Support MultiCast VLAN & MultiCast Maximum Address
Security and Firewall	• DDoS, Filtering Based on ACL/ MAC/ URL • Support DDNS, ALG, UPnP, Port forwarding, DMZ • HTTP/ SSH/ Telnet Service Access Control • Support Parent control • Support PPTP , L2TP, Pass-through service
QoS	• Support 4 queues • Support SP, WRR, 802.1P and DSCP
VoIP	• SIP and IMS SIP • G.711a/ G.711u/ G.722/ G.729/ G.723/ G.726 Codec • Echo cancellation,VAD/CNG,DTMF Relay • T.30/T.38 FAX • Caller Identification/Call Waiting/Call Forwarding/Call Transfer/Call Hold/3-way Meeting conference • Line testing according to GR-909 • Support high-quality broadband voice
WiFi	• Wi-Fi 6: 802.11a/n/ac/ax 5GHz & 802.11g/b/n/ax 2.4GHz • WiFi Encryption:WEP-64/WEP-128/ WPA/WPA2/WPA3 • Support WiFi Easy-mesh function
Management	• Support Telnet, CLI, OMCI/OAM ,TR069 and Web management

Package

Package	• 1 x ONU • 1 x Quick Installation Guide • 1 x Power Adapter

Ordering information

Product Name	Product Description	Accessories
ZP-8414DWH	XPON+4GE+USB3.0+1POTS+WiFi AX3000	AC-DC power adapter: DC12V/1.5A

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Product Interface and LED

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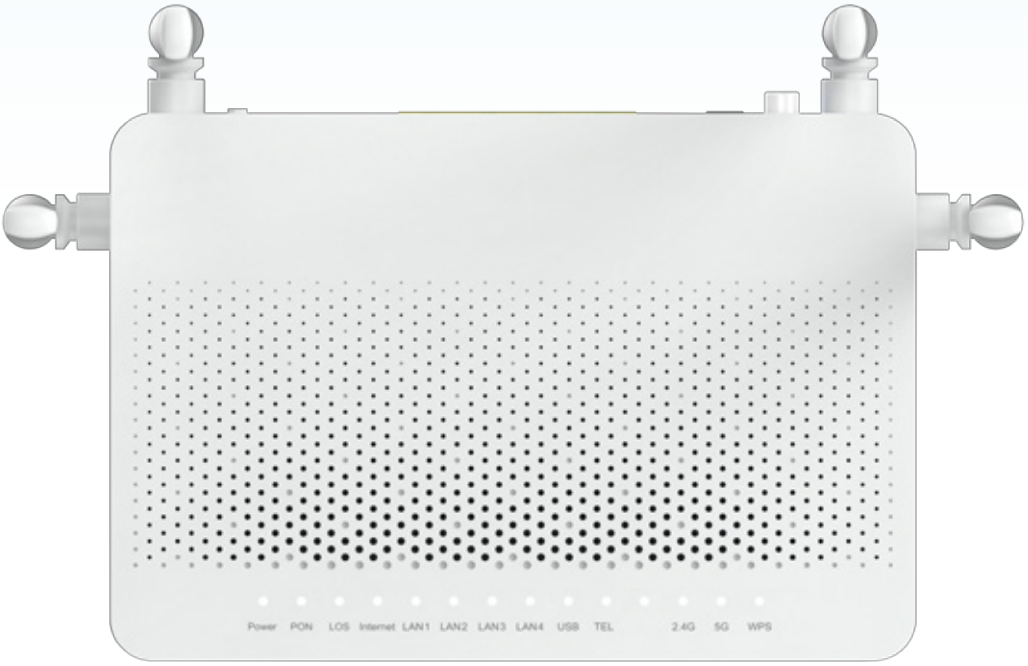
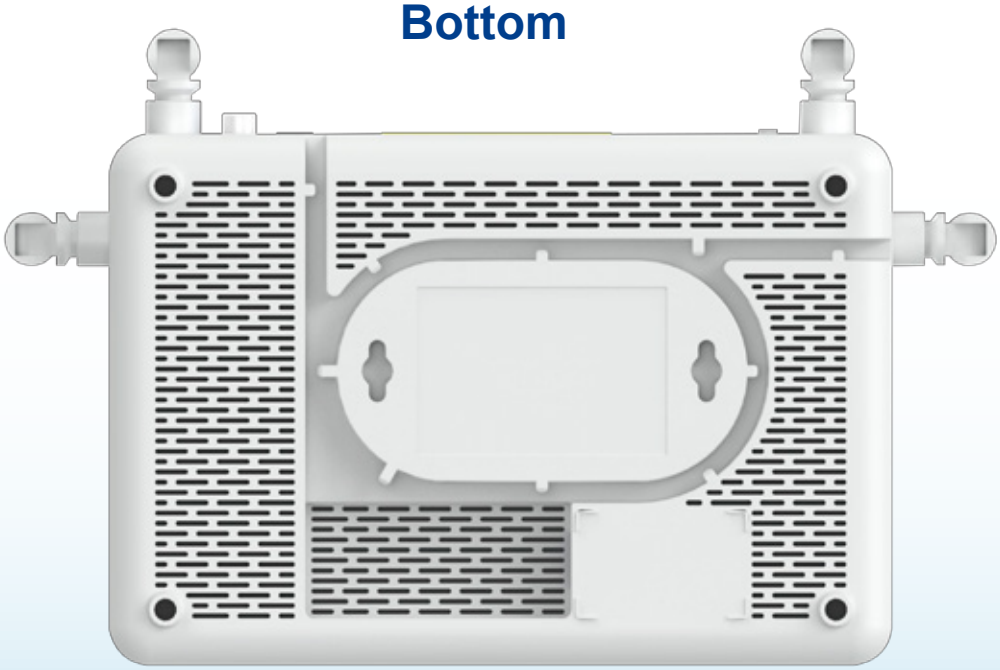


Bottom



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Six views

Front

Back

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Six views

Left

Right

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