

AX6000 Dual-band XGS-PON Gateway

ZXHN F8648P

Overview

ZXHN F8648P is an AX6000 dual band Gigabit Premium triple-play XGS-PON gateway. It comes with one 10GE LAN port, four GE LAN ports, two phone ports, and dual band 4x4 Wi-Fi 6 with 160MHz@5GHz.

MU-MIMO and OFDMA technologies sharply improve efficiency of the Wi-Fi network. 160MHz ensures larger bandwidth for customer to better surf the internet, watch the video, and play online game with ultimate Wi-Fi experience.



Highlights



10 Gigabit Your Way

- XGS-PON and 10GE LAN bring 10Gbps bandwidth experience.



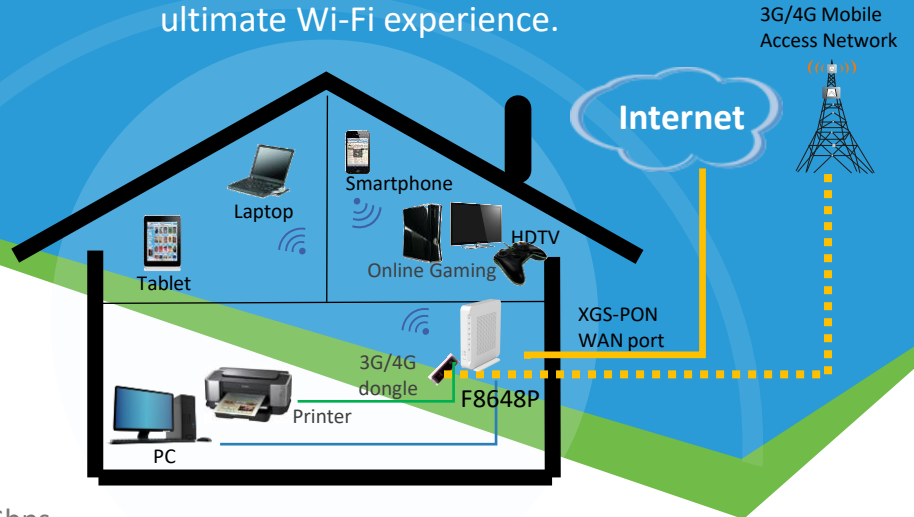
More Flexible Management

- Complete OMCI complying with ITU-T G.988
- OMCI plus TR-069 complying with BBF TR-142 framework.



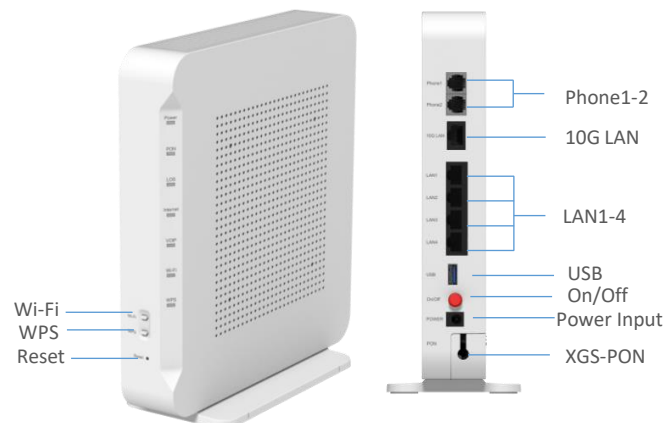
Ultimate Wi-Fi Experience

- DL/UL MU-MIMO, OFDMA and Beamforming bring better concurrency and higher efficiency.
- Dual band Wi-Fi 6 up to 6000Mbps, 160MHz@5GHz.
- Band steering, smart roaming optimize QoS.



Hardware Specifications

| | | |
|------------|---|---|
| Interfaces | WAN | • 1xSC/APC connector for XGS-PON |
| | LAN | • 1x10GE+4xGE RJ-45 ports • 2xFXS RJ-11 ports • 1xUSB 3.0 port • 4x4 802.11b/g/n/ax Wi-Fi @ 2.4GHz • 4x4 802.11a/n/ac/ax Wi-Fi @ 5GHz(160MHz) |
| Buttons | <ul style="list-style-type: none"> • Wi-Fi • WPS • Reset • On/Off | |
| LEDs | <ul style="list-style-type: none"> • Power, PON, LOS, Internet, VOIP, Wi-Fi, WPS | |
| Antenna | <ul style="list-style-type: none"> • Internal antennas | |





Software Functions

Wi-Fi

- 160 MHz channel bandwidth@5G
- DL/UL MU-MIMO and OFDMA
- Manual/Auto radio channel selection
- Target-Wakeup Time
- Spatial Reuse
- Beamforming for 5GHz band
- WPA/WPA2/WPA3 Security
- Four broadcast/hidden SSIDs on each band

VoIP

- SIP (RFC3261) compliant
- DTMF and pulse number receiving
- DTMF encryption algorithm (RFC2833)
- G.711 a/u law, G.729, and G.722 coding /encoding algorithm
- VAD and CNG
- T.30 fax, T.38 fax

Networking

- IPv4/IPv6 dual-stack
- Port mapping/DMZ/Virtual server
- UPnP IGD with NAT traversal capability
- Static routing/dynamic routing
- Dynamic DNS relay
- DHCP client/server
- IGMP and MLD snooping/proxy

QoS

- Flexible packet classification
- 802.1p and DSCP remarking
- Up to eight queues
- SP/DWRR/SP+DWRR
- Priority based queuing scheduling
- Wi-Fi Multimedia (WMM)

Security

- Stateful Packet Inspection (SPI) firewall
- Denial of Service (DoS) protection
- Multiple VPN pass-through(L2TP/PPTP/IPSec)
- MAC/IP/URL filtering
- Service based access control

Management

- TR-069/OMCI remote management
- Web GUI based management
- Local built-in diagnostic function
- Logs and statistics
- Remote upgrade by HTTP

Other Characteristics

| | |
|------------------------|--|
| Power Supply | <ul style="list-style-type: none"> • AC adapter: 12V DC, 3A |
| Characteristics | <ul style="list-style-type: none"> • Net weight: 1.1kg • Dimensions(W*D*H): 230x215x40 mm |
| Environmental | <ul style="list-style-type: none"> • Operating temperature: 0 °C~ 40°C(23°F ~ 113°F) • Humidity: 5% ~ 95% (non-condensing) |
| Certification | <ul style="list-style-type: none"> • CE • Wi-Fi 6 |