

AX10800 Tri-Band XGS-PON ONT with 10GE

ZXHN F8648Q



Overview

The ZXHN F8648Q is an AX10800 tri-band XGS-PON gateway, supporting 160MHz@5GHz and 6GHz, which is designed for high-end home users. It has one 10 GE port, four GE LAN ports and two phone ports, one USB 3.0 port.

MU-MIMO and OFDMA technologies significantly improve efficiency of the Wi-Fi network. By using the ZXHN F8648Q, the home users can access data, video and enjoy high-speed Internet access.



Highlights



10 Gigabit Speeds

- 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.

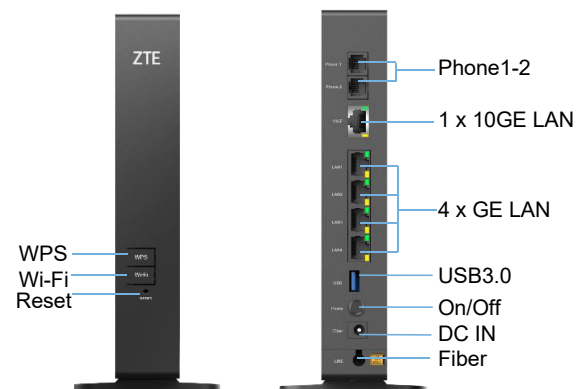
Hardware Specifications

Interfaces	WAN	• XGS-PON
	LAN	<ul style="list-style-type: none"> • 1x10GE+4xGE RJ-45 ports • 2xFXS RJ-11 ports • 1xUSB3.0 • 4x4 802.11b/g/n/ax Wi-Fi @ 2.4GHz • 4x4 802.11a/n/ac/ax Wi-Fi @ 5GHz(160MHz) • 4x4 802.11a/n/ac/ax Wi-Fi @ 6GHz(160MHz)
Buttons	<ul style="list-style-type: none"> • Wi-Fi • WPS 	<ul style="list-style-type: none"> • Reset • On/Off
LEDs	• Power, PON, ALARM, Internet, LAN, Phone, Wi-Fi, WPS, Wi-Fi 6G, USB	
Antenna	• Internal antennas	



Ultimate Wi-Fi Experience with Wi-Fi 6E

- DL/UL MU-MIMO, OFDMA and Beamforming bring better concurrency and higher efficiency.
- Support 160MHz@5GHz&6GHz, up to 10800 Mbps.
- Band steering, smart roaming optimize QoS.
- Provide ultimate experience for gigabit broadband applications





AX10800 XGS-PON Tri-Band ONT with 10GE

ZXHN F8648Q

Software Functions

Wi-Fi

- 160MHz channel bandwidth@5GHz&6GHz
- OFDMA and MU-MIMO
- Spatial reuse
- Target wakeup time
- Manual/auto radio channel selection
- WPA/WPA2/WPA3 security
- Up to 128 user terminals

XGS-PON

- ITU-T G.9807 compatible
- Flexible mapping between XGEM port and T-CONT
- Multicast XGEM port
- Priority queuing and scheduling for upstream traffic
- Upstream traffic classification based on VLAN ID and 802.1p

Networking

- IPv4/IPv6 dual-stack
- Port mapping/DMZ
- 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
- 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"> • 12V DC, 3A
Characteristics	<ul style="list-style-type: none"> • Net weight: 850g • Dimensions: 210*205*37 mm
Environmental	<ul style="list-style-type: none"> • Operating temperature: 0 °C~ 40°C • Humidity: 5% ~ 95% (non-condensing)
Certification	<ul style="list-style-type: none"> • CE • ROHS • Wi-Fi