AX3000 Dual-band Wi-Fi 6 GPON Gateway with RF
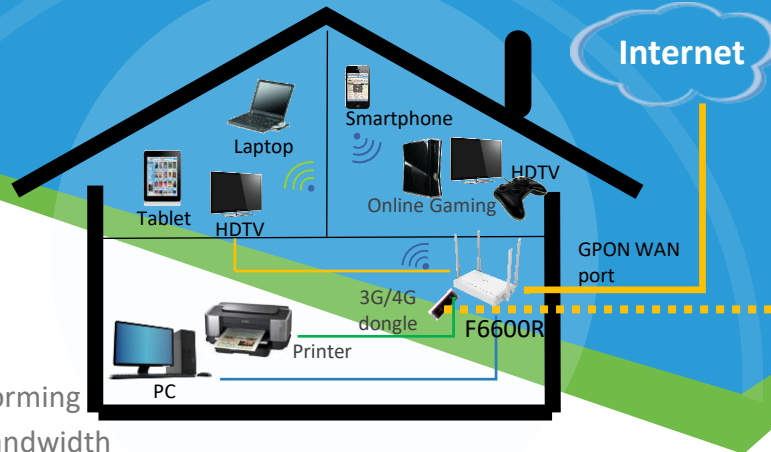
ZXHN F6600R

Overview

The ZXHN F6600R is an AX3000 dual-band triple-play GPON gateway, supporting 160MHz@5GHz and RF overlay. It comes with four GE LAN ports and one phone port. MU-MIMO and OFDMA technologies sharply improve efficiency of the Wi-Fi network. By using the device, the home users can better surf the web, access TV and voice services, and enjoy high-speed internet connection.

3G/4G Mobile Access Network

Internet

Smartphone

Laptop

HDTV

Online Gaming

Tablet

HDTV

GPON WAN port

3G/4G dongle

F6600R

Printer

PC

Highlights

Ultimate Wi-Fi Experience

- DL/UL MU-MIMO, OFDMA and Beamforming bring better concurrency and higher bandwidth
- Dual band concurrent Wi-Fi 6 up to 3.0Gbps
- Band steering, smart roaming optimize QoS

More Flexible Management

- Complete OMCI complying with ITU-T G.988
- OMCI and TR-069 management that complies with the BBF TR-142 framework
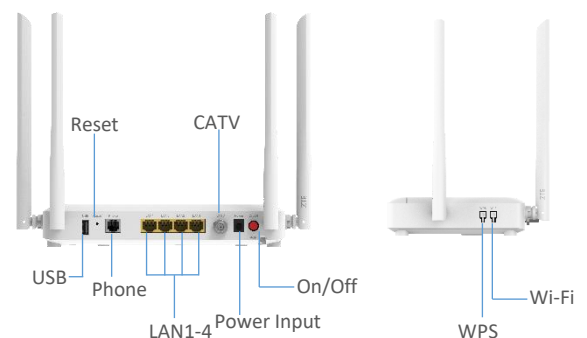
High Reliability

- The highly reliable heat dissipation design guarantees its stable operation.
- The dual image ensures uninterrupted services during software download or upgrade, thereby enhancing software reliability.

Hardware Specifications

Interfaces	WAN	• 1xSC/APC connector for GPON
	LAN	• 4xGE RJ-45 ports • 1xFXS RJ-11 ports • 1xUSB 2.0 port • 1xRF • 2x2 802.11b/g/n/ax Wi-Fi @ 2.4GHz • 2x2 802.11a/n/ac/ax Wi-Fi @ 5GHz
Buttons		• Wi-Fi • WPS • Reset • Power On/Off
LEDs		• Power, PON, LOS, Internet, LAN1, LAN2, LAN3, LAN4, Phone, 2.4G, 5G, WPS, CATV
Antenna		• External antennas

Reset

CATV

USB

Phone

LAN1-4

Power Input

On/Off

Wi-Fi

WPS

ZTE

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Software Functions

Wi-Fi

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

CATV

- Standard F5-Type connector
- Analog RF video over dedicated 1550nm wavelength
- RF Output level AGC Adjustment
- RF output level of +17 dBmV
- RF Passband: 46 MHz-1 GHz
- Switched on/off by remote control
- Receiving sensitivity: - 8 to 2 dBm

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(TR-098/TR-181 data model)/OMCI remote management
- Web GUI based management
- Local built-in diagnostic function
- Logs and statistics

Other Characteristics

Power Supply	• 12V DC, 1.5A
Characteristics	• Net weight: 500g • Dimensions: 210*130*35mm
Environmental	• Operating temperature: 0 ºC~40 ºC(23 ºF ~ 113 ºF) • Humidity: 5% ~ 95% (non-condensing)
Certification	• CE • Wi-Fi 6