



## AC1200 Dual-Band Gigabit Router

- **802.11ac technology, backward compatible with 802.11 a/b/g/n, offers concurrent wireless delivers data transfer rates of up to 300 Mbps\* for 2.4 GHz or 867 Mbps\* for 5 GHz**
- **Simultaneous Dual-band allows you to connect at faster 11ac speeds while allowing legacy 2.4Ghz 11b/g/n wireless devices to connect**
- **Easy setup with Wi-Fi Protected Setup (WPS)**



### Benefits

#### Complies with IEEE802.11a/b/g/n Standard and 5GHz IEEE802.11ac Draft

ZyXEL's Dual-Band Gigabit Router operates on both 5GHz and 2.4GHz frequencies. It supports the 802.11ac draft in the 5GHz band and is fully compliant with 802.11a/b/g/n standards.

#### Gigabit Wireless Speeds

Taking advantage of the less cluttered 5GHz band, the X650 can support up to 867Mbps data rate, which is 3X faster than that offered by current 11n devices. In addition, the X650 simultaneously offers 11n speeds of up to 300Mbps on the 2.4Ghz band for legacy 11 g/n devices. You'll enjoy true gigabit performance on both wired and wireless devices.

#### Ideal for Wireless Video Streaming and Online Gaming

Watch streaming videos and play online games without lag, interference or other interruptions.

#### Concurrent Dual Band Access Points

Acting as a bridge between the wired Ethernet, and the 2.4GHz 802.11b/g/n and 5GHz 802.11a/n/ac wireless LANs, the X650 can enable all your wireless devices to access both the wired and the wireless network nodes.

#### Wi-Fi Protected Setup (WPS)

The X650 uses WPS to create a secure wireless connection between it and your other networked devices. WPS lets you simply press a couple of buttons rather than enter long passphrases.

**AC1200 Dual-Band  
Gigabit Router**  
X650



## AC1200 Dual-Band Gigabit Router X650



### Router Features

- NAT/NAPT IP sharing
- PPPoE/PPTP/static IP/DHCP/L2TP for WAN connection
- DHCP server to assign IP address automatically
- DMZ/Virtual server/port forwarding
- Special applications (port trigger)
- DDNS (DynDNS, TZO)
- VPN pass through (IPSec/L2TP/PPTP)
- Anti-DoS Firewall
- IP/MAC/URL filtering
- QoS
- Web-based configuration
- Firmware upgrades

### Wireless Features

- Complies with IEEE 802.11a/b/g/n standards and IEEE 802.11ac draft
- Supports 2.4GHz and 5GHz wireless networks connection simultaneously
- Supports 2T2R MIMO technology in 5GHz frequency and 2T2R MIMO technology in 2.4GHz frequency, enhancing the performance and coverage range significantly
- Supports 64/128-bit WEP, WPA and WPA2 securities and also IEEE 802.1x authentication
- High speed transmit and receive data rate – up to 650Mbps while operating in IEEE 802.11ac (5GHz, 80MHz) mode and up to 300Mbps while operating in IEEE 802.11an (5GHz, 40MHz) or IEEE 802.11b/g/n (2.4GHz) mode.
- Supports WPS function for easy wireless association

## Specifications

### System Specifications

#### SOC+RF

- Realtek RTL8197D (CPU) + RTL8192CE (2.4G) + RTL8812AE (5G)

#### Gigabit Switch

- Realtek RTL8367R-VB

#### Flash

- 8MB SPI Flash

#### RAM

- 64MB DDR2 RAM

#### WAN Port

- 10/100/1000M (Auto-MDI/MDI-X) UTP Port x 1

#### LAN Ports

- 10/100/1000M (Auto-MDI/MDI-X) UTP Port x 4

#### MIMO Technology

- 5GHz: 2T2R MIMO, 2.4GHz: 2T2R MIMO

#### Antenna

- 3dBi Dual Band Fixed Dipole Antenna x 2

### Output Power

#### 2.4GHz:

- 11b (11M): 16±1.5 dBm
- 11g (54M): 14±1.5 dBm
- 11n (20MHz, MCS7): 13±1.5 dBm
- 11n (40MHz, MCS7): 13±1.5 dBm

#### 5GHz:

- 11a (54M): TBC
- 11n (20MHz, MCS7): TBC
- 11n (40MHz, MCS7): TBC
- 11ac (80MHz, VHTMCS7): TBC

### Receive Sensitivity

#### 2.4GHz:

- 11b (11M): -84±2 dBm
- 11g (54M): -70±2 dBm
- 11n (20MHz, MCS7): -65±2 dBm
- 11n (40MHz, MCS7): -63±2 dBm

#### 5GHz:

- 11a (54M): TBC
- 11n (20MHz, MCS7): TBC
- 11n (40MHz, MCS7): TBC
- 11ac (80MHz, VHTMCS7): TBC

### Mechanical

#### Power:

- 5V / : 2A Switch Power Adapter (TBC)

#### Dimensions:

- 1.25 (H) x 7 (W) x 4.6 (D) inches

### Environmental

#### Operating Temperature:

- 32° ~ 104° F, Storage: -4°~140° F

#### Operating Humidity:

- 10 ~ 90% (NonCondensing)

#### Storage Temperature:

- Max. 95% (NonCondensing)

For more product information, visit us on the web at [www.ZyXEL.com](http://www.ZyXEL.com)



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