



R200AX

Nebula WiFi 6 AX6000 2.5GbE Wired Router

Unlock multi-gigabit broadband with powerful WiFi for every space

The R200AX combines dedicated 2.5GbE wired performance, high-capacity AX6000 WiFi 6 and flexible coverage in one powerful router. It provides connected homes and SOHO environments with the speed, capacity and reliability needed to keep more wired and wireless devices running smoothly.

**Built for multi-gig broadband.
Ready for every connected moment.**

Nebula WiFi 6 AX6000 2.5GbE Wired Router | **R200AX**



Benefits

Multi-gig speed from end to end

Dedicated 2.5GbE WAN and LAN ports help users take full advantage of premium fiber and Ethernet broadband without being limited by conventional Gigabit connections. The 2.5GbE LAN provides a direct high-speed connection for gaming PCs, workstations, servers or NAS systems, while three additional Gigabit LAN ports and USB 3.0 support smart TVs, IPTV devices, office equipment and other connected devices.



2.5GbE WAN and LAN ports eliminate Gigabit bottlenecks



AX6000 WiFi 6 speeds up 4.8 Gbps on 5 GHz and 1.1 Gbps on 2.4 GHz



High-capacity 4x4 WiFi for greater capacity and stable performance



Zero-touch setup, remote monitoring and open APIs with Nebula Cloud



MPro Mesh Solution expands coverage through one seamless WiFi network



Fast WiFi for every connected moment

AX6000 dual-band WiFi 6 delivers speeds of up to 4,804 Mbps on 5 GHz and 1,148 Mbps on 2.4 GHz. Combined with 4x4 connectivity, OFDMA, MU-MIMO and beamforming, the R200AX distributes bandwidth efficiently across multiple devices for smoother video conferencing, cloud applications, 4K/8K streaming, online gaming and everyday connected devices. Multiple SSIDs also make it easier to separate private, staff, guest and IoT traffic.



Broader coverage. One seamless network

Zyxel MPro Mesh, compliant with EasyMesh standards, allows users to expand coverage with compatible Zyxel MPro Mesh extenders while maintaining one unified WiFi network. Devices can stay connected while moving between rooms or work areas, helping reduce weak-signal zones across larger homes, multi-floor spaces and SOHO environments.



Simple setup. Flexible management

Simply connect the 2.5GbE WAN port to a compatible ONU, ONT or broadband modem to distribute high-speed connectivity throughout the space. The intuitive web interface, WPS support and clear LED indicators simplify everyday management, while Nebula provides remote monitoring and centralized network visibility.



Multi-layered protection for every connection

Built-in WiFi encryption, Stateful Packet Inspection firewall protection and DoS attack prevention help protect connected devices from unauthorized access and common network threats. Device access controls, multiple SSIDs and VLAN support make it easier to separate household, guest, office and smart-device traffic, while flexible NAT, port forwarding, DHCP, Dynamic DNS and IPv4/IPv6 routing options support more advanced network requirements.

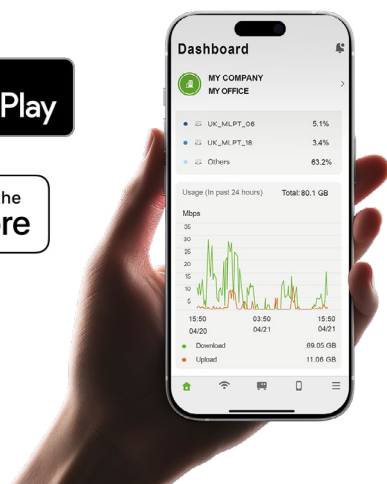


Click. Tap. Done.

Get up and running in minutes with the Nebula mobile app. With just a few simple clicks, our user-friendly step-by-step wizard walks you through the entire installation process, no technical expertise required.

Once connected, the intuitive interface gives you complete control, making it easy to adjust settings, monitor performance and manage your network anytime, anywhere.

Search: Zyxel Nebula Mobile



Powerful, effortless & scalable connectivity

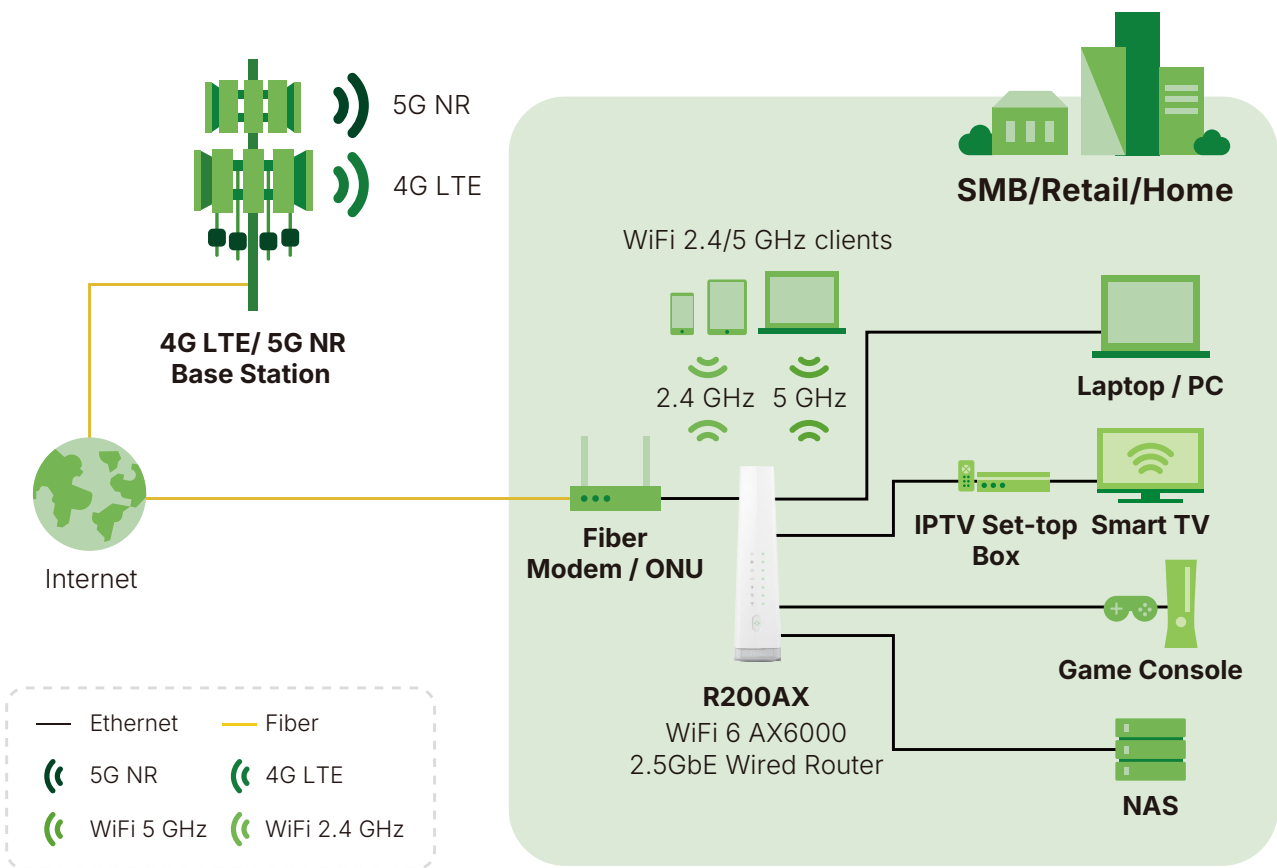
With Nebula, you can manage your entire network – wireless, switching, security and security, mobile router and wired router – through a single centralized cloud platform. Deploy and configure devices quickly and remotely, without the need for extra hardware controllers or software.

Whether you're managing one site or many, Nebula delivers real-time monitoring, instant alerts and complete network visibility – anytime, anywhere.

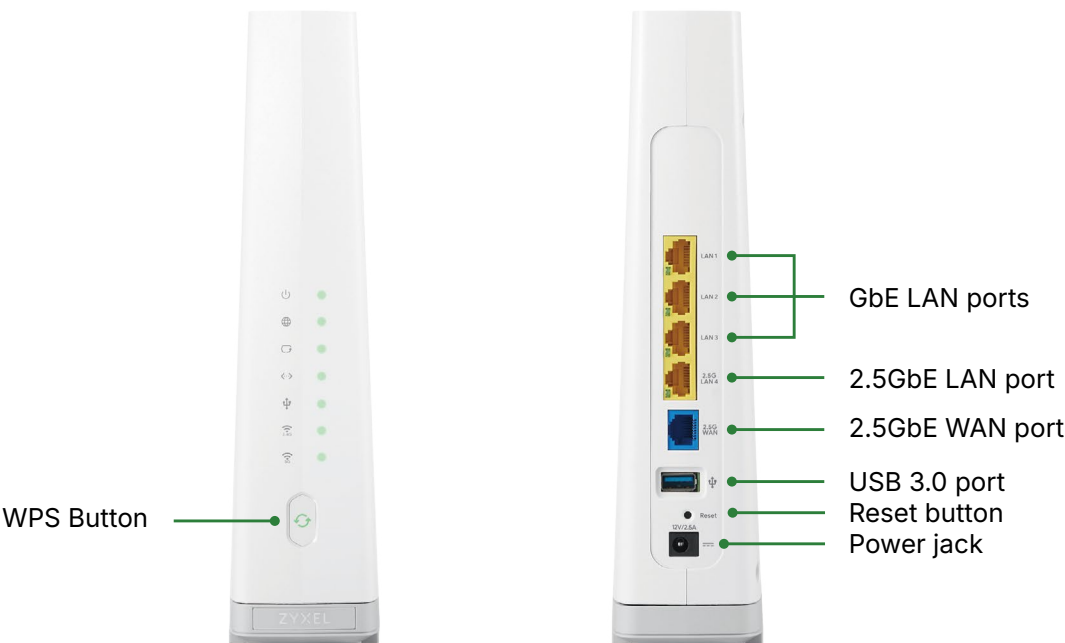
Scale confidently, simplify operations and stay secure – all through one intuitive platform.



Application Diagram



Interface Description



Features

System specifications

Wireless standards

- IEEE 802.11 b/g/n/ax 2.4 GHz
- IEEE 802.11 a/n/ac/ax 5 GHz

Wireless transfer rates

- Transmit:
 - 802.11ax (2.4GHz): up to 1148 Mbps*
 - 802.11ax (5GHz): up to 4804 Mbps*

Wireless security

- WPA2-PSK

WLAN features

- Auto channel selection
- WiFi Multimedia (WMM)
- Wireless output power management
- Multiple SSIDs up to 4
- WiFi Protected Setup (WPS)
- Intra-BSS traffic block
- MAC address filtering
- WPS 2.0

Firewall

- IPv4/IPv6 firewall (Stateful Packet Inspection)
- Denial-of-Service (DoS) attack prevention
- ICMP blocking Routing

Routing

- IPv4/IPv6
- NAT
- Port forwarding
- WAN connection type: DHCP, PPPoE
- DHCP option 60/121/125
- DHCP server on LAN
- IGMP v2/v3
- IGMP proxy
- Dynamic DNS

VLAN

- 802.1q tag/tag based VLAN
- VLAN to ETH port mapping
- Bridged/routed VLAN support

Management

- Local/Remote management (HTTP, HTTPS) and firmware upgrade
- S-NSSAI mapping, Slice/Service type (SST)/Slice Differentiator (SD)
- FOTA (Manual /Auto)
- CLI/SSH (Local and remote SSH access)
- UPNP IGD supporting
- Ethernet over IP (L2 over L3) pass through
- SSH with key access
- Certificate Management
- Web server API to support APPs
- Multiple language support

Hardware specifications

WAN

- One 10/100/1000 Mbps/2.5GbE RJ-45 port

LAN

- One 10/100/1000 Mbps/2.5GbE RJ-45 port
- Three 10/100/1000 Mbps Ethernet RJ-45 ports

USB

- One USB 3.0 host

LED indicators

- Power
- Ethernet WAN
- Internet
- WiFi 2.4G
- WiFi 5G
- WPS

Buttons

- WPS
- Reset

Power consumption

- 12 V DC, 2.5 A
- 30 Watt max

Physical specifications

- Item dimensions (WxDxH): 175 x 60 x 245 mm (6.88" x 2.36" x 9.64")
- Item weight: 793 g (1.75 lb.)
- Packing dimensions (WxDxH): 245 x 266 x 73 mm (9.64" x 10.47" x 2.87")
- Packing weight: 1387 g (3.06 lb.)

Environment specifications

Operating environment

- Temperature: 0°C to 40°C (32°F to 104°F)
- Humidity: 10% to 90% (Non-condensing)

Storage environment

- Temperature: -30°C to 70°C (-22°F to 158°F)
- Humidity: 10% to 95% (Non-condensing)

Certification

- FCC, IC

Package contents

- Gigabit Ethernet Gateway
- Power adapter
- Ethernet cable
- Quick Start Guide via QR Code

* The maximum data rate is a theoretical value. The actual data rates depend on the network environment.

Nebula R200AX License Pack



Nebula provides flexible options to meet your needs, offering complimentary, enhanced, and advanced cloud networking solutions. Your chosen plan determines the level of service you receive from Nebula Cloud

Feature Name	Base Pack	Plus Pack	Pro Pack
Unlimited Registration & Central Management (Configuration, Monitoring, Dashboard, Location Map & Floor Plan Visual) of Nebula Devices	•	•	•
Over-the-air Firmware Management	•	•	•
Admin Accounts per Organization (Full Access for Administration Rights)	5	8	Unlimited
Advanced Firmware Scheduling (Org/Site/Device)		•	•
Site-wide Topology (Visual and Actionable)	•	•	•
Advanced Site-wide Topology			•
Site-wide Alert: Emails and App Push Notifications	•	•	•
Organizational User Audit / Change Logs			•
Backup/Restore Configuration			•
Priority Nebula Support Request (Direct NCC incl. Web Chat)			•

* Search "Nebula Plans and Pricing" for more Nebula license plan.

Nebula Mobile App



Success Story



For more product information, visit us on the web at www.zyxel.com

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