





NWA90AX Pro

802.11ax (WiFi 6) Dual-Radio PoE Access Point

Delivering AX3000 WiFi speed with 2.5G Ethernet uplink port, the Zyxel NWA90AX Pro provides the powerful and fastest WiFi 6 speed for small businesses, SoHo, and home offices. Small business owners looking for an affordable WiFi 6 access point with multi-gig connectivity, Zyxel NWA90AX Pro is no doubt the ideal choice for them to support more connected devices and applications with the fastest speeds.

To better leverage the faster speeds in 5 GHz band, Zyxel NWA90AX Pro equips with 3x high-gain antennas to boost WiFi signals and extend coverage, especially to previously hard-to-reach areas. In addition to the WiFi boost, NWA90AX Pro also comes with the premium multi-gig Ethernet connections. As it can run on the common-type Cat5e cabling, a 2.5G uplink port breaks through the 1.0G bottleneck without re-cabling, making it easy to create an affordable high-speed network environment for your business or home.

In addition, with the support of captive portal and IEEE 802.1x authentication, the NWA90AX Pro not only offers SMB users the enterprise-level security to protect their business networks, but also the flexible opportunity to customize wireless network usage login for marketing and business recognition.

The NWA90AX Pro with NebulaFlex offers the flexible manageability for you to freely choose between the local GUI management or onboarding to our super easy Nebula cloud management interface that you never need to worry about forgetting the IP address or lost account and password as you can manage everything on cloud.



AX3000 (3x3:2 in 5 GHz; 2x2:2 in 2.4 GHz) AP provides maximum data rate of 3000 Mbps



The 2.5G uplink port enables multi-gig connectivity for small biz networks, making it easy to upgrade to high-speed networks without re-cabling



Captive portal and IEEE 802.1X authentication support provides enterprise-level security



The Multi-gig Connection Stabilization Pad secures the connection between the Cat 5E cable and the RJ45 connector to ensure the 2.5G speed is linked for maximum throughput



NebulaFlex allows users to switch between standalone or intuitive Nebula cloud managed modes as needed





Benefits

2.5G multi-gig WiFi 6 connectivity for small businesses

In the world of wireless transmission, the sustained rates of 2x2 or 3x3 AX client devices deliver real-world speed faster than Gigabit (>1 Gbps). And, the 2.5 Gbps uplink will ensure that there is no bottleneck in the data transmission traveling upwards to connect to the switch, router, and the broadband Internet.

The upgrade to the 2.5G network infrastructure requires no re-cabling, as it can run on the common-type Cat5e cable, making it easy to create an affordable high-speed network environment for your business or home.

Multi-gig connection stabilization

Oftentimes, when deploying a new AP, especially in the small business settings, the network admins will choose to use the common-type Cat5e cable they have on hand. However, due to the wear and tear of the cable (deterioration in the metal surface and the plastic fatigue), it is very likely to encounter a speed drop in the connection.

To improve the stability of the multi-gig connection between the Cat5e cable and the RJ45 connector, the connection stabilization rubber pad is designed for this purpose. The multi-gig connection stabilization pad helps secure the connection between the cable and the connector to ensure the 2.5G speed is linked to obtain the total internet throughput.

Boosting 5 GHz WiFi range

To better leverage the faster speeds in 5 GHz band, Zyxel NWA90AX Pro equips with 3x high-gain antennas to boost WiFi signals and extend coverage, especially to previously hard-to-reach areas.

In addition to the WiFi boost, NWA90AX Pro also comes with the premium multi-gig Ethernet connections. As it can run on the common-type Cat5e cabling, a 2.5G uplink port breaks through the 1.0G bottleneck without re-cabling, making it easy to create an affordable high-speed network environment for your business or home.

NebulaFlex – simply manage it your way!

The NebulaFlex provides extended flexibility, allowing users to easily switch between standalone and our intuitive cloud-managed NCC (Nebula Control Center) mode any time according to your needs without additional cost while protecting wireless technology investments. The Nebula cloud management platform provides centralized control and visibility over all Nebula networking devices. You simply need to register the device on NCC, and it will automatically join, auto provision and begin to give real-time information. The intuitive platform allows you to group your access points together, control centrally, gain access to diagnostics tools all under a single platform.

Specifications

Model **NWA90AX Pro** 802.11ax (WiFi 6) Dual-Radio PoE Access Point **Product name**

Wireless			
Standard		IEEE 802.11 ax/ac/n/g/b/a	
МІМО		MU-MIMO	
Wireless speed	2.4 GHz	575 Mbps	
	5 GHz	2400 Mbps	
Frequency band	2.4 GHz	• USA (FCC): 2.412 to 2.462 GHz	
		• Europe (ETSI): 2.412 to 2.472 GHz	
	5 GHz	• USA (FCC): 5.15 to 5.35 GHz; 5.470 to 5.850 GHz	
		• European (ETSI): 5.15 to 5.35 GHz; 5.470 to 5.725 GHz	
Bandwidth		20-, 40-, 80-, and, 160-MHz	
Conducted typical transmit output power*1	US (2.4 GHz/5 GHz)	•	
	EU (2.4 GHz/5 GHz)	20/28 dBm	
RF Design			
Antenna type		Internal antenna	
Antenna gain	2.4 GHz	3 dBi, 2x2: 2SS	
	5 GHz	4 dBi, 3x3: 2SS	
Minimum receive sensitivity		Min. Rx sensitivity up to -99 dBm	
WLAN Feature			
Band steering		Yes	
WDS/Mesh*2		Yes	
Fast roaming		Pre-authentication, PMK caching, and 802.11r/k/v	
DCS		Yes	
Load balancing		No	
Advanced cellular coexis	tence	Yes	
Security			
Encryption		WEP/WPA/WPA2-PSK/WPA3	
Authentication		WPA/WPA2-Enterprise/EAP/IEEE 802.1X/RADIUS authentication	
Access management		L2-isolation/MAC filtering/Rogue AP detection	
Networking			
IPv6		Yes	
VLANs		Yes	
WMM		Yes	
U-APSD		Yes	
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^{*1:} Conducted typical transmit output power excludes antenna gain. For total (EIRP) transmit power, add antenna gain.
*2: WDS, ZyMesh, Smart Mesh and Industry's Open Mesh, Easy Mesh are different mesh systems that do not work with one another.

Model		NWA90AX Pro		
Managemen	t			
Operating mode		Cloud managed/standalone		
ZON Utility		 Discovery of Zyxel switches, APs Centralized and batch configure IP configuration IP renew Device reboot Device locating 		
Web UI/CLI		Yes		
SNMP		No		
Physical Spe	ecifications			
Item Dimensions (WxDxH)(mm/in.)		140 x 140 x 37.5/5.51 x 5.51 x 1.48		
	Weight (g/lb.)	352/0.78		
Packing	Dimensions (WxDxH)(mm/in.)	240 x 155 x 60/9.45 x 6.10 x 2.36		
	Weight (g/lb.)	668/1.47		
Included accessories		Power adapterMount plateMounting screws		
MTBF (hr)		420,539		
Physical Inte	erfaces			
Ethernet port		1 x 1/2.5 Gbps LAN		
Power		 Power adapter: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 2 A PoE (802.3at): power draw 20.5 W 		
PoE modes	IEEE 802.3af	Not supported		
	IEEE 802.3at	Unrestricted		
	IEEE 802.3bt	Unrestricted		
Environment	tal Specifications			
Operating	Temperature	0°C to 50°C/32°F to 122°F		
	Humidity	10% to 90% (non-condensing)		
Storage	Temperature	-40°C to 70°C/-40°F to 158°F		
Humidity		10% to 90% (non-condensing)		
Certification	ns			
Radio		FCC Part 15C, FCC Part 15E; ETSI LP0002, EN 60601-1-2	EN 300 328, EN 301 893;	
EMC		FCC Part 15B, EN 301 489-1; EN 301 489-17, EN55022, EN55024,	EN61000-3-2/-3, BSMI CNS13438	
Safety		EN 60950-1, IEC 60950-1; BSMI CN	NS14336-1	

