



NWA90AX

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

The NWA90AX is truly the right choice for SMB users looking to upgrade to 11ax (WiFi 6) access points without an expensive price tag. It supports WiFi 6 in both 2.4 GHz and 5 GHz frequencies, which is aimed to empower you to enjoy all the best things WiFi 6 has to offer such as faster speeds even when congested or in high-density environments, expanded range in your wireless network, and increased capacity for IoT deployments.

In addition, with the support of captive portal and IEEE 802.1x authentication, the NWA90AX 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 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 helps you set up your wireless network in minutes.



Dual-radio (dual 2x2) 802.11ax AP provides maximum data rate of 1775 Mbps



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



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



Advanced Cellular Coexistence minimizes interferences from 4G/5G cellular networks



Smart Mesh automatically forms dynamic wireless links and mitigates complex, inconvenient cabling WiFi deployments

Benefits

Bringing next generation WiFi within reach

WiFi 6 made tremendous improvement by introducing new technologies such as orthogonal frequency-division multiple access (OFDMA), and spatial re-use, which is also referred to as Basic Service Set (BSS) coloring. It aims to satisfy the all requirements from rapidly growing mobile users simultaneously. Zyxel's new NWA90AX is a true WiFi 6 access point which supports essential 11ax functions that delivers faster performance and massive increased-capacity make the user experience even better.

Apart from running at 25% faster speed, NWA90AX can also maximize the WiFi efficiency by allowing simultaneous data transmission for multiple clients; thus, the air time contention is no longer an issue here.

4G/5G cellular network coexistence

With the exponential growth of mobile devices in the wireless network, users start to experience degraded performance, such as ping drops and high latency; users have to reduce the use of their mobile devices in order to maintain a smooth, working wireless service. Thus, to enable 4G/5G cellular network coexistence and minimize interference from 4G/5G antennas or signal boosters, the NWA90AX has built-in 4G/5G interference filters. As a result, the visible or invisible 4G/5G indoor antennas in the environment is no longer an issue when installing APs.

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. Simply you only 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 and additional features like captive portal all under a single platform.

Specifications

Model		NWA90AX
Product name		802.11ax (WiFi 6) Dual-Radio PoE Access Point
		
Wireless		
Standard		IEEE 802.11 ax/ac/n/g/b/a
MIMO		MU-MIMO
Wireless speed	2.4 GHz	575 Mbps
	5 GHz	1200 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-MHz
Conducted typical transmit output power*1 (limited by local regulatory requirements)	US (2.4 GHz/5 GHz)	23/26 dBm
	EU (2.4 GHz/5 GHz)	20/25 dBm
RF Design		
Antenna type		2x2 + 2x2 MIMO embedded antenna
Antenna gain	2.4 GHz	3 dBi
	5 GHz	4 dBi
Minimum receive sensitivity		Min. Rx sensitivity up to -99 dBm
WLAN Feature		
Band steering		Yes
WDS/Mesh*2		Yes
Fast roaming		Yes
DCS		Yes
Load balancing		No
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

*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
Management		
Operating mode		Cloud managed/standalone
ZON Utility		• Discovery of Zyxel switches, APs and gateways • Centralized and batch configurations ▪ IP configuration ▪ IP renew ▪ Device reboot ▪ Device locating ▪ Web GUI access ▪ Firmware upgrade ▪ Password configuration
Zyxel Wireless Optimizer		WiFi AP planning
Web UI/CLI		Yes
SNMP		No
Physical Specifications		
Item	Dimensions (WxDxH)(mm/in.)	140 x 140 x 37.5/5.51 x 5.51 x 1.48
	Weight (g/lb.)	290/0.64
Packing	Dimensions (WxDxH)(mm/in.)	240 x 155 x 60/9.45 x 6.10 x 2.36
	Weight (g/lb.)	600/1.32
Included accessories		• Power adapter • Mount plate • Mounting screws
MTBF (hr)		1,010,980
Physical Interfaces		
Ethernet port		1 x 10/100/1000M LAN
Power		• Input: AC 100 - 240 V - 50/60 Hz 0.3 A; Output: DC +12 V 1.5 A • PoE (802.3at): power draw 16 W
Environmental 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)
Certifications		
Radio		FCC Part 15C, FCC Part 15E; ETSI EN 300 328, EN 301 893; LP0002, EN 60601-1-2
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 CNS14336-1

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