





NWA210AX

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

The NWA210AX is truly the next generation of wireless (WiFi 6) AP, especially for businesses looking to strike the right balance between performance and budget. It embodies the full range of WiFi 6 technologies including UL/DL, OFDMA, MU-MIMO, and 1024 QAM, which enables the ultra-fast speed of 2975 Mbps. The NWA210AX 4x4 (5G) + 2x2 (2.4G) antenna design boasts the most effective solution to guarantee that it provides smooth and consistently fast service to each client at all times. Also, it uses the second generation transmit beamforming technology incorporating Low End Sensitivity Improvements and Time Domain Channel Smoothing allowing data rates to increase for not only MU-MIMO clients, but for all existing ones as well.

The NWA210AX is not only efficient at delivering impressive speeds with its smooth and consistent delivery to wireless clients, but it is also efficient on power. The NWA210AX can deliver its impressive performance while keeping the consumption of PoE within the PoE+ standard, so that you can enjoy the latest WiFi 6 technology, experiencing first-hand the uncompromising multigigabit speed when coupling without the need of re-cabling.

Benefits

Bringing next generation WiFi within reach

WiFi 6 made tremendous improvement by introducing new technologies such as orthogonal frequency-division multiple access (ODFMA), 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 NWA210AX is a true WiFi 6 access point which support essential 11ax functions that delivers faster performance and massive increased-capacity make the user experience even better.



Dual-radio (dual 4x4 + 2x2) 802.11ax AP provides maximum data rate of 2975 Mbps



OFDMA is arguably the best innovation of WiFi, delivering the highest performance and low latency for all scenarios



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



The latest WPA3 security protocol provides safer connectivity



Next generation beamforming technology delivers maximum coverage





Apart from running at 25% faster speed, the NWA210AX can also maximize the WiFi efficiency by allowing simultaneous data transmission for multiple clients; thus, the airtime contention is no longer an issue.

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, however whenever user shutdown the mobile equipment, wireless service resumes working smooth. Thus, to enable 4G/5G cellular network coexistence and minimize interference from 4G/5G antennas or signal boosters, the NWA210AX 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!

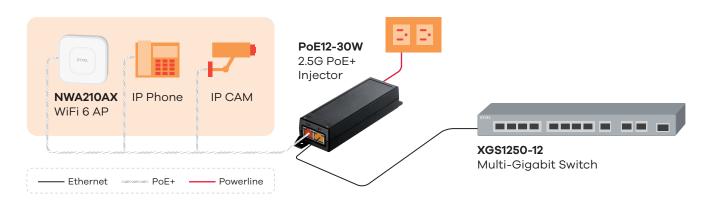
The NebulaFlex provides extended flexibility, allowing users to easily switch among standalone, or our intuitive cloud-managed NCC (Nebula Control Center) modes any time according to your needs without additional cost while protecting wireless technology investments.

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.

Powerful Hardware Design True WiFi 6 Qualcomm 4-core processor Anti-noise spreader High performance FEM +50% performance Minimizes interference from cellular network Surge and ESD protection 6x surge protection

Suggested PoE Injector

2x ESD protection



Specifications

Model	NWA210AX
Product name	802.11ax (WiFi 6) Dual-Radio PoE Access Point
	ZYYEL

Wireless				
Standard		IEEE 802.11 ax/ac/n/g/b/a		
MIMO		MU-MIMO		
	2.4 GHz	575 Mbps		
Wireless speed	5 GHz	2400 Mbps		
Frequency band	2.4 GHz	• USA (FCC): 2.412 to 2.462 GHz		
	2.4 GHZ	 Europe (ETSI): 2.412 to 2.462 GHz 		
	5 GHz	• USA (FCC): 5.15 to 5.35 GHz; 5.		
	0 0112	• European (ETSI): 5.15 to 5.35 (
Bandwidth		20-, 40-, 80- and 160-MHz	· ·	
Conducted typical transmit	US	23/25 dBm		
output power*1	(2.4 GHz/5 GHz)			
(limited by local regulatory	EU	19/22 dBm		
requirements)	(2.4 GHz/5 GHz)			
RF Design				
Antenna type		4x4 + 2x2 MIMO embedded an	tenna	
Antenna gain	2.4 GHz	Peak gain 5 dBi	Peak gain 5 dBi	
	5 GHz	Peak gain 6 dBi		
Minimum receive sensitivity		Min. Rx sensitivity up to -101 de	Min. Rx sensitivity up to -101 dBm	
WLAN Feature				
Band steering		Yes		
WDS/Mesh*2		Yes (V6.10)		
Fast roaming		Pre-authentication, PMK caching and 802.11r/k/v		
DCS		Yes		
Load balancing		Yes		
Security				
Encryption		WEP/WPA/WPA2-PSK/WPA3		
Authentication		WPA/WPA2-Enterprise/EAP/IEEE 802.1X/RADIUS authentication		
Access management		L2-isolation/MAC filtering		
Networking				
IPv6		Yes		
VLANs		Yes		
WMM		Yes		
U-APSD		Yes		
DiffServ marking		Yes		
Management				
Operating mode		Cloud managed/standalone		
ZON Utility		 Discovery of Zyxel switches, A Centralized and batch config IP configuration IP renew 	gurations • Web GUI access • Firmware upgrade	
		Device reboot	Password configuration	
		Device locating		

^{*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		NWA210AX	
Management			
Zyxel Wireless Optimizer		WiFi AP planningWiFi coverage detectionWireless health management	
Web UI/CLI		Yes	
SNMP		Yes	
Physical Specific	cations		
Item	Dimensions (WxDxH)(mm/in.)	180 x 180 x 39/7.09 x 7.09 x 1.54	
	Weight (g/lb.)	545/1.20	
Packing	Dimensions (WxDxH)(mm/in.)	329 x 212 x 64/12.95 x 8.35 x 2.52	
	Weight (g/lb.)	1065/2.35	
Included accessories		Mount plateMounting screwsPower adaptor	
MTBF (hr)		329,004	
Physical Interfac	ces		
Ethernet port		1 x 10/100/1000/2500M LAN 1 x 10/100/1000M LAN	
Power		PoE (802.3) at: power draw 19 WDC input: 12 VDC 2 A	
Environmental S	pecifications		
Operating	Temperature	0°C to 50°C/32°F to 122°F	
	Humidity	10% to 95% (non-condensing)	
Storage	Temperature	-30°C to 70°C/-22°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	
EMC		FCC Part 15B, EN 301 489-1, EN 301 489-17, EN55022, EN55024, EN61000-3-2/-3, EN60601-1-2, BSMI CNS13438	
Safety		Safety EN 60950-1, IEC 60950-1, BSMI CNS14336-1	

Accessory

Model	POEIZ-30W	
RJ-45 (Data) input	1	
RJ-45 (Data + Power) output	1	
Data rate	100 Mbps and 1/2.5 Gbps	
PoE standard	PoE, PoE+	
Total PoE budget	30 watts	

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Suggested WiFi 6 AP