



## 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 multi-gigabit speed when coupling without the need of re-cabling.



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

## 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 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.

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.

### NebulaFlex – simply manage it your way!

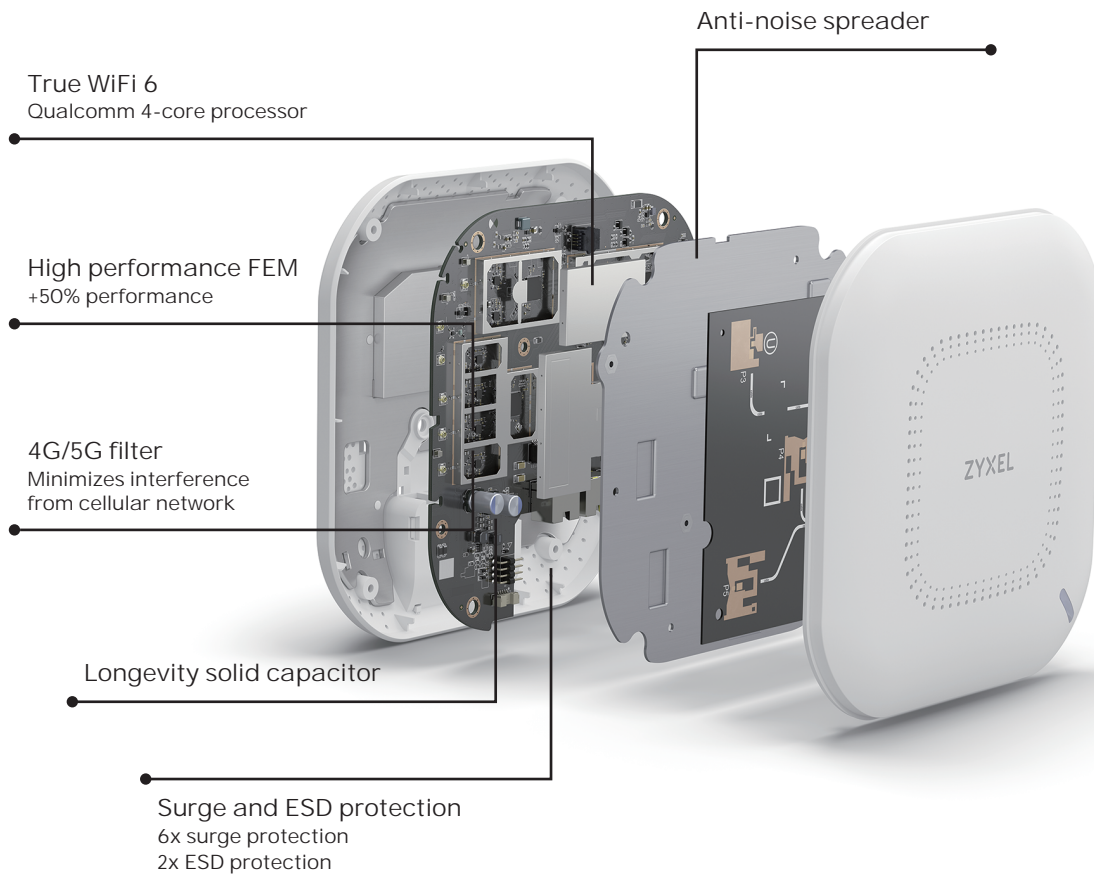
The NebulaFlex provides extended flexibility, allowing users to easily switch among standalone, or our intuitive cloud-managed NCC (Nebula Control Center) modes any time according to your needs without additional cost while protecting wireless technology investments.

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.

### 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.

## Powerful Hardware Design



# Specifications

<b>Model</b>	<b>NWA210AX</b>
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**Product name** 802.11ax (WiFi 6) Dual-Radio PoE Access Point



## Wireless

<b>Standard</b>	IEEE 802.11 ax/ac/n/g/b/a	
<b>MIMO</b>	MU-MIMO	
<b>Wireless speed</b>	2.4 GHz	575 Mbps
	5 GHz	2400 Mbps
<b>Frequency band</b>	2.4 GHz	<ul style="list-style-type: none"> <li>• USA (FCC): 2.412 to 2.462 GHz</li> <li>• Europe (ETSI): 2.412 to 2.472 GHz</li> </ul>
	5 GHz	<ul style="list-style-type: none"> <li>• USA (FCC): 5.15 to 5.35 GHz; 5.470 to 5.850 GHz</li> <li>• European (ETSI): 5.15 to 5.35 GHz; 5.470 to 5.725 GHz</li> </ul>
<b>Bandwidth</b>	20-, 40-, 80- and 160-MHz	
<b>Conducted typical transmit output power</b>	US (2.4 GHz/5 GHz)	23/25 dBm
	EU (2.4 GHz/5 GHz)	19/22 dBm

## RF Design

<b>Antenna type</b>	4x4 + 2x2 MIMO embedded antenna	
<b>Antenna gain</b>	2.4 GHz	Peak gain 5 dBi
	5 GHz	Peak gain 6 dBi
<b>Minimum receive sensitivity</b>	Min. Rx sensitivity up to -101 dBm	

## WLAN Feature

<b>Band steering</b>	Yes
<b>WDS/Mesh</b>	Yes (V6.10)
<b>Fast roaming</b>	Pre-authentication, PMK caching and 802.11r/k/v
<b>DCS</b>	Yes
<b>Load balancing</b>	Yes

## Security

<b>Encryption</b>	WEP/ WPA/WPA2-PSK/WPA3
<b>Authentication</b>	WPA/WPA2-Enterprise/EAP/IEEE 802.1X/RADIUS authentication
<b>Access management</b>	L2-isolation/MAC filtering

## Networking

<b>IPv6</b>	Yes
<b>VLANs</b>	Yes
<b>WMM</b>	Yes
<b>U-APSD</b>	Yes
<b>DiffServ marking</b>	Yes

<b>Model</b>		NWA210AX
<b>Management</b>		
<b>Operating mode</b>		Cloud managed/standalone
<b>ZON Utility</b>		<ul style="list-style-type: none"> <li>• Discovery of Zyxel switches, APs and gateways</li> <li>• Centralized and batch configurations <ul style="list-style-type: none"> <li>▪ IP configuration</li> <li>▪ IP renew</li> <li>▪ Device reboot</li> <li>▪ Device locating</li> </ul> </li> <li>▪ Web GUI access</li> <li>▪ Firmware upgrade</li> <li>▪ Password configuration</li> </ul>
<b>Zyxel Wireless Optimizer</b>		<ul style="list-style-type: none"> <li>• WiFi AP planning</li> <li>• WiFi coverage detection</li> <li>• Wireless health management</li> </ul>
<b>Web UI/CLI</b>		Yes
<b>SNMP</b>		Yes
<b>Physical Specifications</b>		
<b>Item</b>	<b>Dimensions (WxDxH)(mm/in.)</b>	180 x 180 x 39/7.09 x 7.09 x 1.54
	<b>Weight (g/lb.)</b>	545/1.20
<b>Packing</b>	<b>Dimensions (WxDxH)(mm/in.)</b>	329 x 212 x 64/12.95 x 8.35 x 2.52
	<b>Weight (g/lb.)</b>	1065/2.35
<b>Included accessories</b>		<ul style="list-style-type: none"> <li>• Mount plate</li> <li>• Mounting screws</li> <li>• Power adaptor</li> </ul>
<b>MTBF (hr)</b>		329,004
<b>Physical Interfaces</b>		
<b>Ethernet port</b>		1 x 10/100/1000/2500M LAN 1 x 10/100/1000M LAN
<b>Power</b>		<ul style="list-style-type: none"> <li>• PoE (802.3)at: power draw 19 W</li> <li>• DC input: 12 VDC 2 A</li> </ul>
<b>Environmental Specifications</b>		
<b>Operating</b>	<b>Temperature</b>	0°C to 50°C/32°F to 122°F
	<b>Humidity</b>	10% to 95% (non-condensing)
<b>Storage</b>	<b>Temperature</b>	-30°C to 70°C/-22°F to 158°F
	<b>Humidity</b>	10% to 90% (non-condensing)
<b>Certifications</b>		
<b>Radio</b>		FCC Part 15C, FCC Part 15E, ETSI EN 300 328, EN 301 893, LP0002
<b>EMC</b>		FCC Part 15B, EN 301 489-1, EN 301 489-17, EN55022, EN55024, EN61000-3-2/-3, EN60601-1-2, BSMI CNS13438
<b>Safety</b>		Safety EN 60950-1, IEC 60950-1, BSMI CNS14336-1

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

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