



NWA110AX

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

The NWA110AX is truly the next generation of wireless (WiFi 6) AP for businesses looking for a most economical upgrade path to 11ax. Its built-in 2nd Generation WiFi 6 (Qualcomm 802.11ax 2.0) chipset allows the access point to take advantage of the full range of WiFi 6 technologies including uplink OFDMA and MU-MIMO which can't be found in earlier releases of 802.11ax products.

The WAX110AX has been designed to be highly efficient in PoE budget, allowing for an easy upgrade path for those wishing to experience all that WiFi6 has to offer without the need to upgrade existing PoE+ switches.

The NWA110AX with NebulaFlex offers the full flexibility for users to switch among standalone or cloud-managed modes.

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 NWA110AX 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 NWA110AX can also maximize WiFi efficiency, which is obvious for each client even with a small group of user, because there is no air time contention anymore.



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

NebulaFlex – simply manage it your way!

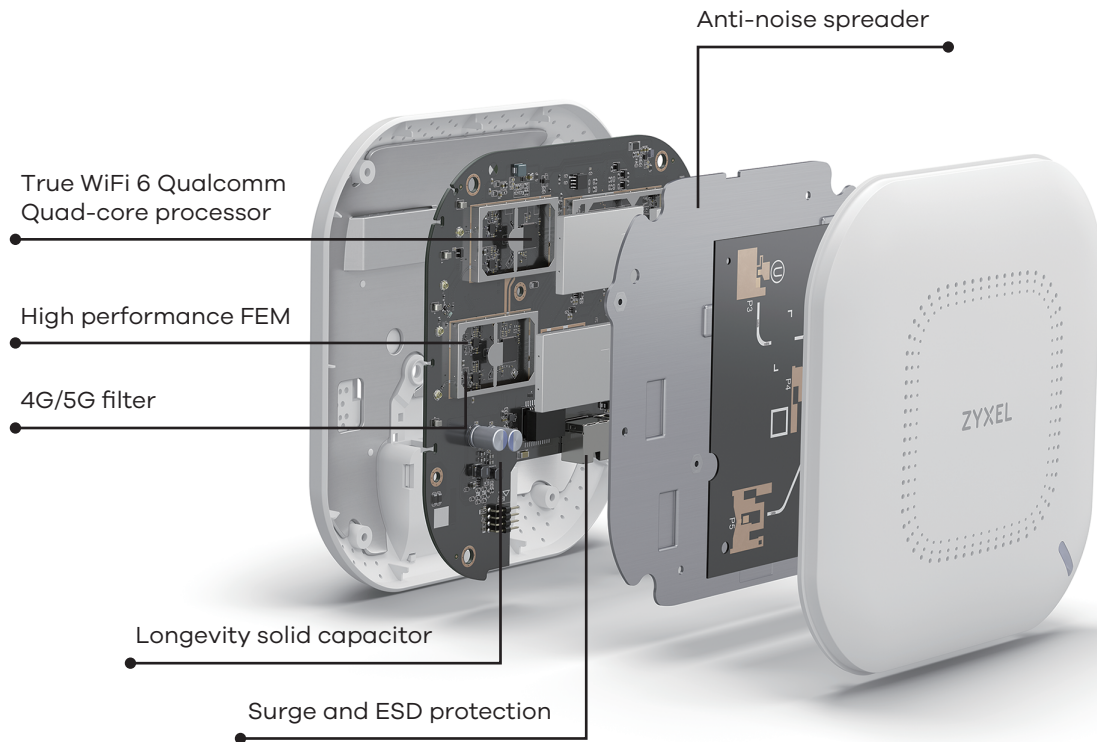
The NebulaFlex provides extended flexibility, allowing users to easily switch among standalone, or our intuitive cloud-managed NCC (Nebula Control Center) modes any time according to your needs without additional cost while protecting wireless technology investments.

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 growing pervasiveness 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 NWA110AX 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

Model	NWA110AX	
Product name	802.11ax (WiFi 6) Dual-Radio PoE Access Point	
		
Wireless		
Standard	IEEE 802.11 ax/ac/n/g/b/a	
MIMO	MIMO	
Wireless speed	2.4 GHz	575 Mbps
	5 GHz	1200 Mbps
Frequency band	2.4 GHz (IEEE 802.11 b/g/n)	<ul style="list-style-type: none"> • USA (FCC): 2.412 to 2.462 GHz • Europe (ETSI): 2.412 to 2.472 GHz
	5 GHz (IEEE 802.11 a/n/ac)	<ul style="list-style-type: none"> • USA (FCC): 5.15 to 5.35 GHz; 5.725 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	US (2.4 GHz/5 GHz)	23/23 dBm
	EU (2.4 GHz/5 GHz)	20/22 dBm
RF Design		
Antenna type	2x2 MIMO	
Antenna gain	2.4 GHz	Peak gain 5 dBi
	5 GHz	Peak gain 6 dBi
Minimum receive sensitivity	Min. Rx sensitivity up to -101 dBm	
WLAN Feature		
Band steering	Yes	
WDS	Future support	
Mesh AP (By license)	Future support	
Mesh AP for multiple SSID with VLAN	Future support	
Smart mesh	Future support	
Fast roaming	Pre-authentication, PMK caching and 802.11r	
DCS	Yes	
Load balancing	Yes	
Security		
Encryption	WEP/WPA/WPA2-PSK/WPA3	
Authentication	WPA/WPA2/WPA3-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	
DiffServ marking	Yes	

Model		NWA110AX
Management		
Operating mode	Cloud managed/standalone	
ZON Utility	<ul style="list-style-type: none"> • Discovery of Zyxel switches, APs and gateways • Centralized and batch configurations <ul style="list-style-type: none"> ▪ IP configuration ▪ IP renew ▪ Device reboot ▪ Device locating ▪ Web GUI access ▪ Firmware upgrade ▪ Password configuration 	
Zyxel Wireless Optimizer	<ul style="list-style-type: none"> • WiFi AP planning • WiFi coverage detection • Wireless health management 	
Web UI/CLI	Yes	
SNMP	Yes	
Physical Specifications		
Item	Dimensions (WxDxH)(mm/in.)	180 x 180 x 39/7.09 x 7.09 x 1.54
	Weight (g/lb.)	453/1.00
Packing	Dimensions (WxDxH)(mm/in.)	229 x 216 x 64/9.02 x 8.50 x 2.52
	Weight (g/lb.)	770/1.70
Included accessories	<ul style="list-style-type: none"> • Mount plate • Mounting screws • Power adapter 	
MTBF (hr)	635,837	
Physical Interfaces		
Ethernet port	1 x 10/100/1000M LAN	
Power	<ul style="list-style-type: none"> • PoE (802.3)at: power draw 17 W • DC input: 12 VDC 1.5 A 	
Environmental Specifications		
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	

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15/01/20