





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. 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 NAX110AX 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 (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 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.



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



Next generation beamforming technology delivers maximum coverage





Apart from running at 25% faster speed, NWA110AX 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.

NebulaFlex - simply manage it your way!

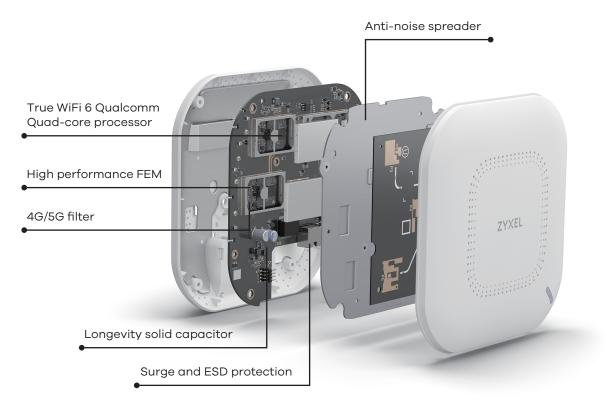
The NebulaFlex provides extended flexibility, allowing users to easily switch among standalone, or our intuitive cloud-managed NCC (Nebula Control Center) modes any time according to your needs without additional cost while protecting wireless technology investments.

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 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
	ZYXEL

Standard IEEE 802.11 ax/ac/n/g/b/a MIMO MU-MIMO Wireless speed 2.4 GHz 575 Mbps 5 GHz 100 Mbps Frequency band [EEE 802.11 b/g/n) 4 GHz USA (FCC): 2.412 to 2.472 GHz 6 5 GHz USA (FCC): 5.15 to 5.35 GHz; 5.470 to 5.850 GHz IEEE 802.11 a/n/ac) USA (FCC): 5.15 to 5.35 GHz; 5.470 to 5.725 GHz Bandwidth USA (FCC): 5.15 to 5.35 GHz; 5.470 to 5.725 GHz Conducted USA (FCC): 5.15 to 5.35 GHz; 5.470 to 5.725 GHz USA (FCC): 5.15 to 5.35 GHz; 5.470 to 5.725 GHz Bandwidth USA (FCC): 5.15 to 5.35 GHz; 5.470 to 5.725 GHz USA (FCC): 5.15 to 5.35 GHz; 5.470 to 5.725 GHz USA (FCC): 5.15 to 5.35 GHz; 5.470 to 5.725 GHz USA (FCC): 5.15 to 5.35 GHz; 5.470 to 5.725 GHz USA (FCC): 5.15 to 5.35 GHz; 5.470 to 5.725 GHz USA (FCC): 5.15 to 5.35 GHz; 5.470 to 5.725 GHz USA (FCC): 5.15 to 5.35 GHz; 5.470 to 5.725 GHz USA (FCC): 5.15 to 5.35 GHz; 5.470 to 5.725 GHz USA (FCC): 5.15 to 5.35 GHz; 5.470 to 5.725 GHz USA (FCC): 5.15 to 5.35 GHz; 5.470 to 5.725 GHz	Wireless		
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Frequency band 2.4 GHz		2.4 GHz	575 Mbps
	•	5 GHz	
	Frequency band	2.4 GHz	• USA (FCC): 2.412 to 2.462 GHz
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IPv6YesVLANsYesWMMYesU-APSDYes	Access managem	ent	L2-isolation/MAC filtering
VLANs Yes WMM Yes U-APSD Yes	Networking		
WMM Yes U-APSD Yes	IPv6		Yes
U-APSD Yes	VLANs		Yes
2 12 2	WMM		Yes
DiffServ marking Yes	U-APSD		Yes
	DiffServ marking		Yes

Model		NWA110AX
Management		
Operating mode		Cloud managed/standalone
ZON Utility		 Discovery of Zyxel switches, APs and gateways Centralized and batch configurations IP configuration Web GUI access IP renew Firmware upgrade Device reboot Password configuration Device locating
Zyxel Wireless Optimizer		WiFi AP planningWiFi coverage detectionWireless health management
Web UI/CLI		Yes
SNMP		Yes
Physical Specifica	itions	
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.)	329 x 212 x 64/12.95 x 8.35 x 2.52
	Weight (g/lb.)	985/2.17
Included accessor	ries	Mount plateMounting screwsPower adapter
MTBF (hr)		635,837
Physical Interface	es	
Ethernet port		1 x 10/100/1000M LAN
Power		PoE (802.3)at: power draw 17 WDC input: 12 VDC 1.5 A
Environmental Sp	ecifications	
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









