



NWA210AXv2

AX5400 6-Stream WiFi 6 Dual-Radio NebulaFlex Access Point

Zyxel's NWA210AXv2 builds on the proven performance of its predecessor with enhanced speed, connectivity, and power flexibility. Featuring AX5400 WiFi 6 performance and dual 2.5GbE ports, it delivers true multi-gigabit throughput and greater deployment versatility. Its 6-stream 4x4:4 (5GHz) + 2x2:2 (2.4GHz) antenna design ensures consistent, high-quality coverage even in high-density environments.

The NWA210AXv2 supports both PoE+ (802.3at) and USB PD, offering greater installation flexibility while maintaining efficient power usage. Engineered with advanced cellular coexistence technology, it minimizes interference from 4G/5G networks to ensure stable and reliable connectivity.

With Zyxel's NebulaFlex technology, users can effortlessly switch between Nebula cloud management and standalone operation, delivering seamless adaptability across diverse network scenarios.

Benefits

Bringing Proven WiFi 6 Performance to the Next Level

While WiFi 7 is emerging as the latest standard, WiFi 6 remains the ideal choice for businesses seeking exceptional speed, efficiency, and value. Zyxel's NWA210AXv2 takes WiFi 6 performance further with AX5400 throughput and dual 2.5GbE ports, delivering true multi-gigabit connectivity and greater deployment flexibility. Supporting essential 802.11ax technologies such as OFDMA and BSS coloring, the NWA210AXv2 ensures faster performance, higher capacity, and a seamless user experience for today's demanding, high-density environments.



Dual-radio (dual 4x4:4 + 2x2:2) 802.11ax AP provides maximum data rate of 5400Mbps



Dual 2.5 GbE ports unlock multi-gigabit throughput and seamless network integration



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



Can be powered by PoE at (PoE+) or USB Type C charger to offer flexible powering options



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

4G/5G cellular network coexistence

With the exponential growth of mobile devices, WiFi networks often suffer from degraded performance—such as increased latency or dropped connections—caused by interference from nearby 4G/5G antennas or signal boosters. Zyxel's NWA210AXv2 is equipped with built-in 4G/5G interference filters to ensure seamless coexistence between WiFi and cellular networks. This design effectively minimizes interference, allowing the access point to maintain stable, high-performance connectivity even in environments with visible or hidden 4G/5G indoor antennas.

Seamless Network Expansion and Connectivity

The NWA210AXv2 provides flexible deployment options with Smart Mesh and Wireless Bridge capabilities, making it perfect for indoor business and home environments. Smart Mesh simplifies network expansion by automatically creating a self-organizing wireless network that adapts in real time to interference, layout changes, or obstacles—ensuring uninterrupted connectivity for all users without additional cabling.

Wireless Bridge enables seamless point-to-point or point-to-multipoint connections between different areas or floors, offering a reliable alternative to wired links. Together, these features allow the NWA210AXv2 to deliver scalable, high-speed connectivity with minimal setup and maintenance, making it ideal for offices, campuses, hotels, and restaurants.

NebulaFlex – simply manage it your way!

NebulaFlex offers extended flexibility, enabling users to effortlessly switch between standalone mode and our intuitive cloud-managed NCC (Nebula Control Center) modes at any time, without incurring additional costs. This ensures adaptability to changing needs while safeguarding investments in wireless technology.

Nebula, the intelligent cloud management

Nebula offers comprehensive monitoring and reporting capabilities, including real-time notifications for critical events via email or the mobile app. With Nebula, you can enjoy a streamlined experience for network installation and management without the need for additional costs for software or hardware controllers.

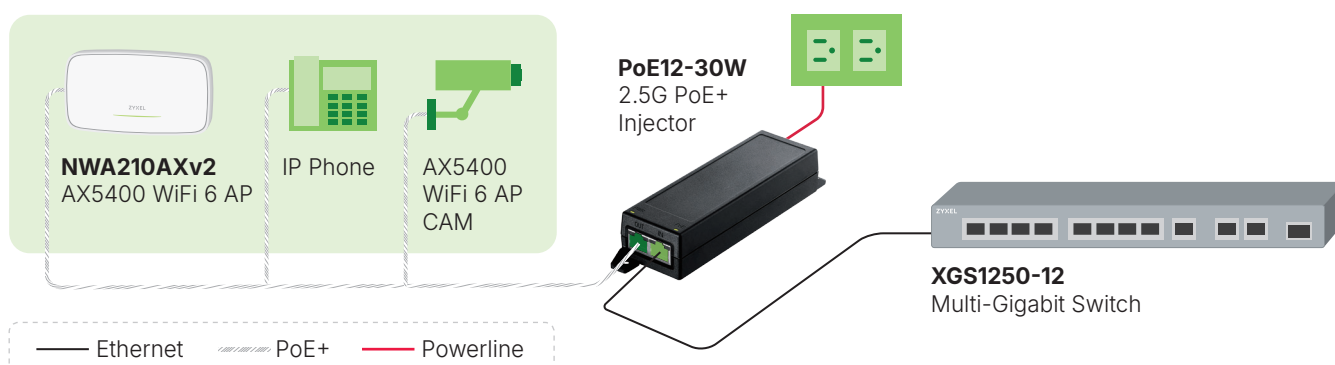
• Enhance your WiFi with Nebula

Nebula automates wireless network management and optimization with features like WiFi Aid and Wireless Health, ensuring the best possible user experience. These features enhance network performance and reliability, delivering an exceptional WiFi experience.


• Smooth and secure wireless experience

The Nebula Connect & Protect Plus (CNP+) service is a Nebula cloud mode license focused on SB hotspot WiFi scenarios. It protects network users from cybersecurity threats and supports application-level network visibility and bandwidth throttling.

Suggested PoE Injector



Specifications


Model		NWA210AXv2
Product name		AX5400 6-Stream WiFi 6 Dual-Radio NebulaFlex Access Point
		
Wireless		
Standard		IEEE802.11 ax/ac/n/g/b/a
MIMO		MU-MIMO
Wireless speed	2.4 GHz	575 Mbps
	5 GHz	4800 Mbps
Frequency band	2.4 GHz	<ul style="list-style-type: none"> USA (FCC): 2.412 to 2.462GHz Europe (ETSI): 2.412 to 2.472GHz
	5 GHz	<ul style="list-style-type: none"> USA (FCC): 5.15 to 5.35GHz; 5.470 to 5.850GHz European (ETSI): 5.15 to 5.35GHz; 5.470 to 5.725GHz
Bandwidth		20-, 40-, 80-, and 160-MHz
Conducted typical transmit output power*1	US (2.4 GHz/5 GHz)	26/28 dBm
	EU (2.4 GHz/5 GHz)	19/26 dBm
RF Design		
Antenna type		Internal Antenna
Antenna gain	2.4 GHz	1.49dBi, 2X2:2SS
	5 GHz	2.78dBi, 4X4:4SS
Minimum receive sensitivity		Min. Rx sensitivity up to -99 dBm
WLAN Feature		
Band steering		Yes
WDS/Smart Mesh*2		Yes
Wireless Bridge		Yes
Fast roaming		Pre-authentication, PMK caching and 802.11r/k/v
DCS		Yes
Load balancing		Yes
Advanced Cellular Coexistence		Yes
Security		
Encryption		WEP/WPA/WPA2/WPA3
Authentication		IEEE 802.1X/ RADIUS authentication
Access management		L2-isolation/MAC filtering/Rogue AP detection
Networking		
IPv6		Yes
VLANs		Yes
WMM		Yes
U-APSD		Yes
Management		
Operating mode		Nebula Cloud managed/standalone
ZON Utility		<ul style="list-style-type: none"> Discovery of ZyXel switches, APs and gateways Centralized and batch configuration <ul style="list-style-type: none"> IP configuration IP renew Device reboot Device locating Web GUI access Firmware upgrade Password configuration

*1: Maximum transmit power is limited by local regulatory settings.

*2: WDS, Smart Mesh and Industry's Open Mesh, Easy Mesh are different mesh systems that do not work with one another.

Model		NWA210AXv2
Management		
Web UI/CLI		Yes
SNMP		Yes
Physical Specifications		
Item	Dimensions (WxDxH)(mm/in.)	250 x 160 x 47/9.84 x 6.30 x 1.85
	Weight (g/lb.)	815/1.80
Packing	Dimensions (WxDxH)(mm/in.)	279.5 x 180.5 x 66/11.00 x 7.11 x 2.60
	Weight (g/lb.)	1039/2.29
Included accessories		<ul style="list-style-type: none"> • Mount plate • Mounting screws
MTBF (hr)		691,722
Physical Interfaces		
Ethernet port		2 x 1/2.5Gbps LAN
Power		<ul style="list-style-type: none"> • PoE (802.3at): power draw 21.5W • DC input : USB PD15 VDC2A (Type C)
PoE Modes	IEEE802.3af	No Wireless
	IEEE802.3at	Unrestricted
	IEEE802.3bt	Unrestricted
Environmental Specifications		
Operating	Temperature	0°C to 50°C/32°F to 122°F
	Humidity	10% to 95% (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,FCC Part 2.1091, ETSI EN 300 328, EN 301 893, EN 50385, EN 50665, EN IEC 62311, LP0002
EMC		FCC Part 15B, EN 301 489-1, EN 301 489-17, EN55032, EN55035, EN61000-3-2/-3,EN60601-1-2, BSMI CNS15936
Safety		EN 62368-1, IEC 62368-1, BSMI CNS15598-1

Accessory

Model		PoE12-30W
		
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

For more product information, visit us on the web at www.zyxel.com

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