



NWA55AX PRO

AX3000 4-Stream WiFi 6 Dual-Radio NebulaFlex Outdoor Access Point

The NWA55AX PRO is an AX3000, 4-stream WiFi 6 dual-radio outdoor access point built to deliver reliable high-speed connectivity in demanding environments. With an IP55-rated enclosure, it provides solid protection against dust and water, making it ideal for outdoor deployments.

Positioned as a high-performance WiFi 6 outdoor solution within the portfolio, the NWA55AX PRO offers enhanced wireless throughput and supports 160MHz channel width, delivering higher speeds and better performance. Its sleek, compact design with integrated internal antennas ensures a cleaner appearance, improved waterproof sealing, and greater durability by minimizing the risk of antenna damage—ideal for modern outdoor settings where both performance and aesthetics matter.

Designed for flexible installation, it supports both wall and pole mounting, allowing optimal placement across building exteriors, campuses, hospitality venues, and industrial sites.

With Smart Mesh support, the NWA55AX PRO enables easy outdoor network expansion without additional cabling by wirelessly linking to neighboring access points—perfect for open areas where running Ethernet is difficult or costly. With support for captive portal and IEEE 802.1X authentication, the NWA55AX PRO offers enterprise-level security and flexible options to customize login pages for branding and marketing.

Featuring NebulaFlex, it can switch between standalone and Nebula cloud-managed modes as needed, ensuring simple deployment and scalable network management.



Dual-radio (2x2:2 in 2.4/5GHz) 802.11ax outdoor AP provides maximum speeds up to 3Gbps



Designed for challenging outdoor environments with up to IP55 weatherproof rating



Sleek, compact design with internal antennas enhances aesthetic appeal while protecting the antennas from damage



Supports 160MHz channel width – delivering higher WiFi 6 throughput for faster and more reliable wireless performance



Smart Mesh forms dynamic wireless links and enables flexible, cable-free deployment while delivering higher performance



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



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Benefits

Compact, Durable Design for Easy Deployment

The NWA55AX PRO's compact form with integrated internal antennas simplifies installation and eliminates the need for manual adjustments. Its IP55-rated enclosure and enclosed antennas protect against dust, rain, and physical impact, enhancing durability and reducing maintenance. The sleek, unobtrusive design allows flexible wall or pole placement, making it an ideal solution for extending reliable outdoor wireless connectivity with minimal effort and optimized cost.

Flexible Wireless Connectivity for Outdoor Networks

Zyxel's NWA55AX PRO outdoor WiFi 6 access point delivers exceptional flexibility and reliability for outdoor environments such as campuses, hospitality venues, and industrial sites with its Smart Mesh and Wireless Bridge capabilities. Smart Mesh simplifies deployment by automatically forming a self-organizing wireless network that adapts to interference, distance, and environmental changes—ensuring stable and seamless connectivity across wide outdoor areas without the need for additional cabling.

The Wireless Bridge function further enhances deployment flexibility by enabling secure, high-speed point-to-point or point-to-multipoint connections between building, nearby areas, or shorter distances of up to 100 meters. This makes the NWA55AX PRO ideal for extending network coverage to courtyards, outdoor facilities, detached structures, and open spaces—delivering consistent connectivity and reliable data transmission across large outdoor environments.

RF First by Design

The advanced RF filter design eliminates interference between the 2.4GHz and 5GHz bands, while the built-in 4G/5G interference filter allows seamless coexistence with 4G/5G cellular networks and minimizes interference, all of which guarantees a seamless WiFi experience without interruptions.

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.

Specifications

Model		NWA55AX PRO
Product name		AX3000 4-Stream WiFi 6 Dual-Radio NebulaFlex Outdoor Access Point
		
Wireless		
Standard		IEEE802.11 ax/ac/n/g/b/a
MIMO		MU-MIMO
Wireless speed	2.4GHz	575Mbps
	5GHz	2400Mbps
Frequency band	2.4GHz	• USA (FCC): 2.412 to 2.462GHz • Europe (ETSI): 2.412 to 2.472GHz
	5GHz	• USA (FCC): 5.15 to 5.35GHz; 5.470 to 5.850GHz • Europe (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 (2.4GHz/5GHz)	23/26dBm
	EU (2.4GHz/5GHz)	20/25dBm
RF Design		
Antenna type		Internal Antenna
Antenna gain	2.4GHz	3dBi, 2x2:2SS
	5GHz	4dBi, 2x2:2SS
Minimum receive sensitivity		Min. Rx sensitivity up to -99 dBm
WLAN Features		
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		No
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

Model		NWA55AX PRO
Management		
Operating mode		Cloud managed / standalone
Web UI/CLI		Yes
SNMP		No
Physical Specifications		
Item	Dimensions (WxDxH) (mm/in.)	180 x 99 x 35.9 / 7.09 x 3.90 x 1.41
	Weight (g/lb.)	300/0.66
Packing	Dimensions (WxDxH) (mm/in.)	197 x 184 x 58 / 7.56 x 7.24 x 2.28
	Weight (g/lb.)	671/1.48
Included accessories		• PoE injector • Mounting screws
MTBF (hr)		695,292
Physical Interfaces		
Ethernet port		1 x 1GbE LAN
Power		PoE (802.3af): power draw 12W
PoE modes	IEEE 802.3af	Unrestricted
	IEEE 802.3at	Unrestricted
	IEEE 802.3bt	Unrestricted
Environmental Specifications		
Weather Protection		IP55
Operating	Temperature	-30°C to 50°C/-22°F to 122°F
	Humidity	10% to 90% (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; ETSI EN 300 328, EN 301 893; LP0002
EMC		FCC Part 15B, EN 301 489-1; EN 301 489-17, EN55032, EN55035, EN61000-3-2/-3, BSMI CNS15936
Safety		EN 62368-1, IEC 62368-1; BSMI CNS15598-1

*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.

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

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