



NWA30BE

BE5100 4-Stream WiFi 7 Dual-Radio Desktop NebulaFlex Access Point

Zyxel's NWA30BE is a performance-packed, enterprise-grade WiFi 7 dual-radio (2.4GHz: 2×2:2, 5GHz: 2×2:2) desktop access point designed for compact environments such as small cafés, retail counters, and personal studios. Powered by a Qualcomm quad-core processor, it delivers up to 5.1Gbps of wireless performance at an affordable price—perfect for single-AP setups.

With its unique desktop design, the NWA30BE can be placed right next to wireless POS or self-ordering systems, requiring no installation. Its fixed external antennas provide strong, broad coverage without the placement pre-planning typically needed for embedded-antenna models—ideal for fast, hassle-free deployment.

Unlike ceiling-mounted APs that often require PoE, the NWA30BE plugs directly into a standard electrical outlet via an AC adapter—making it a great fit for setups without a PoE switch. A built-in 2.5GbE uplink port ensures multi-gig connectivity, unlocking the full potential of WiFi 7 performance.

The AP supports multiple SSIDs to separate business and guest traffic, and setup is quick and intuitive through Zyxel's Nebula cloud platform—even for non-technical users. As your network needs grow, you can easily scale using Smart Mesh, with no additional cabling required. Thanks to NebulaFlex, the NWA30BE also offers flexible management—choose between standalone mode or cloud-based control.

Zyxel NWA30BE delivers the perfect balance of performance, simplicity, and scalability—bringing next-gen WiFi 7 to small business environments with ease.



BE5100 (2.4GHz: 2×2:2, 5GHz: 2×2:2) dual-radio access point offers blazingly fast WiFi 7 speeds of up to 5.1Gbps



WiFi 7's MLO allows simultaneous data transmission across multiple bands, increasing speed, lowering latency, and improving reliability



Desktop design requires no installation or mounting, enabling quick and effortless deployment



The 2.5GbE uplink port enables multi-gig speeds for WiFi 7 while staying compatible with existing networks



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

Benefits

Bringing next generation WiFi within reach

WiFi 7, also known as IEEE 802.11be, represents the next evolution in WiFi standards, supporting all three frequency bands – 2.4GHz, 5GHz, and 6GHz. With its revolutionary technological advancements, it promises to redefine the concept of speed, delivering unprecedented rates to elevate online experiences in the digital realm.

Powered by a Qualcomm quad-core CPU, the NWA30BE access point provides ultra-fast WiFi 7 speeds, ensuring enterprise-grade performance in a compact, small business AP.

MLO: Transforming WiFi 7 for Unprecedented Connectivity

Fundamentally, one of the most pioneering advancements of WiFi 7 is the introduction of MLO (Multiple Link Operation). MLO represents a WiFi technology that empowers devices linked to a WiFi access point (AP) to concurrently transmit and/or receive data through various frequency bands and channels. This entails simultaneous connections across the 2.4GHz, 5GHz, and 6GHz bands, a capability absent in earlier WiFi generations where devices were restricted to a solitary WiFi band connection.

The result is a significant amplification in data throughput, a reduction in latency, and an enhancement in reliability. These outcomes undeniably enhance the user experience and unveil novel opportunities for emerging applications such as VR/AR, online gaming, remote office setups, and cloud computing.

Flexible Wireless Connectivity for Small Offices

Zyxel's NWA30BE desktop access point delivers exceptional flexibility and reliability for small offices, retail stores, and other compact indoor spaces with its Smart Mesh and Wireless Bridge capabilities. Smart Mesh simplifies network expansion by automatically creating a self-organising wireless network that adapts to interference, layout changes, or obstacles—ensuring uninterrupted connectivity without additional cabling.

In addition, the Wireless Bridge function enables secure, high-speed point-to-point or point-to-multipoint links between different areas, offering a reliable alternative to wired connections. This makes it ideal for extending network access across multi-room offices or separate indoor areas, ensuring smooth data flow and consistent performance throughout the workspace.


RF First by Design

The advanced RF filter design eliminates interference between the 5GHz and 6GHz 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		NWA30BE
Product name		BE5100 4-Stream WiFi 7 Dual-Radio Desktop NebulaFlex Access Point
		
Wireless		
Standard		IEEE802.11 be/ax/ac/n/g/b/a
MIMO		MU-MIMO
Wireless speed	2.4GHz	688Mbps
	5GHz	4324Mbps
Frequency band	2.4GHz	<ul style="list-style-type: none">USA (FCC): 2.412 to 2.462 GHzEurope (ETSI): 2.412 to 2.472 GHz
	5GHz	<ul style="list-style-type: none">USA (FCC): 5.15 to 5.35 GHz; 5.470 to 5.850 GHzEuropean (ETSI): 5.15 to 5.35 GHz; 5.470 to 5.725 GHz
Bandwidth		20-, 40- ,80-, 160- and 240-MHz
Conducted typical transmit output power*1	US (2.4GHz/5GHz)	25/26dBm
	EU (2.4GHz/5GHz)	16/26dBm
RF Design		
Antenna type		2.4/5GHz undetachable external Antenna
Antenna gain	2.4GHz	2dBi, 2×2:2SS
	5GHz	3dBi, 2×2:2SS
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		WPA/WPA2/WPA3 personal
Authentication		No
Access management		L2-isolation/MAC filtering/Rogue AP detection
Networking		
IPv6		Yes
VLANs		Yes
WMM		Yes
U-APSD		Yes

Model		NWA30BE	
Management			
Operating mode		Cloud managed / standalone	
ZON Utility		<ul style="list-style-type: none">Discovery of Zyxel switches, APs and gatewaysCentralized and batch configurations<ul style="list-style-type: none">IP configurationIP renewDevice rebootDevice locatingWeb GUI accessFirmware upgradePassword configuration	
Web UI/CLI		Yes	
SNMP		No	
Physical Specifications			
Item	Dimensions (WxDxH)(mm/in.)	155 × 140 × 35 / 6.10 × 5.51 × 1.45	
	Weight (g/lb.)	307.3 / 0.68	
Packing	Dimensions (WxDxH)(mm/in.)	175 × 240 × 60 / 6.89 × 9.45 × 2.36	
	Weight (g/lb.)	640.9 / 1.41	
Included accessories		<ul style="list-style-type: none">Power AdapterEthernet Cable	
MTBF (hr)		631,165	
Physical Interfaces			
Ethernet port		1 × 1/2.5GbE LAN	
Power		Power Adapter: AC 100 - 240V - 50/60 Hz 0.3A; Output: DC +12V 1.5A	
PoE modes	IEEE 802.3af	Not supported	
	IEEE 802.3at	Unrestricted	
	IEEE 802.3bt	Unrestricted	
Environmental Specifications			
Operating	Temperature	0°C to 40°C/32°F to 104°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, Draft EN 303 687, 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	

*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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17/10/25