



# NWA90BE MAX

## BE9300 6-Stream WiFi 7 Triple-Radio NebulaFlex Access Point

The NWA90BE MAX is a BE9300 tri-band WiFi 7 access point designed for small businesses that require secure, stable, and centrally managed wireless connectivity.

Featuring simultaneous tri-radio operation across 2.4GHz, 5GHz, and 6GHz, it delivers improved network efficiency and reduced congestion for busy small business environments.

Powered by WiFi 7 and Multi-Link Operation (MLO), the NWA90BE MAX enhances wireless responsiveness and reliability by utilizing multiple links at the same time—ideal for business-critical applications such as cloud services, collaboration tools, and guest access environments. Smart Mesh MLO with tri-radio backhaul further extends these advantages by leveraging simultaneous connectivity across the 2.4GHz, 5GHz, and 6GHz bands to create dynamic wireless links for flexible, cable-free deployment without messy cabling or complex setup. Unlike traditional mesh systems that rely on single-radio backhaul, the tri-radio design delivers higher bandwidth, lower latency, and stronger interference resistance, ensuring fast, stable, and reliable connectivity throughout small business environments.

In addition to high-performance wireless capabilities, the NWA90BE MAX includes essential business security features such as IEEE 802.1X/RADIUS authentication and captive portal support, enabling secure employee and guest network access.

Datasheet [NWA90BE MAX](#)



BE9300 (2×2:2 in 2.4/5/6GHz) triple-radio access point offers blazingly fast WiFi 7 speeds of up to 9.3Gbps



True tri-radio WiFi 7 performance with simultaneous 2.4GHz, 5GHz, and 6GHz operation improves efficiency for WiFi 7 devices and reduces network congestion



Smart Mesh MLO with tri-radio backhaul enables flexible, cable-free deployment while maintaining fast, stable, and reliable connectivity across the network



Supports business-grade security features including IEEE 802.1X/RADIUS authentication and captive portal, delivering enterprise-level security for secure user and guest network management



Nebula cloud management enables easy setup, monitoring, and maintenance, helping small businesses manage networks effortlessly

Built on Zyxel's Nebula cloud platform, the NWA90BE MAX enables easy deployment, remote monitoring, and centralized management, while also offering standalone mode for local management flexibility. Small business owners and IT administrators can quickly set up and manage the access point through the Nebula, including configuration of enterprise security features. This makes it ideal for small business environments seeking enterprise-grade performance with built-in security capabilities and minimal complexity.

Flexible deployment with PoE or USB Type-C power enables simple installation across small business environments, including offices, retail spaces, and service locations, offering greater placement flexibility where power sources are limited.

## Benefits

### WiFi 7 for Small Business Environments

WiFi 7 (IEEE 802.11be) brings next-generation wireless performance to small business environments such as home offices, boutique shops, and small workspaces. Supporting 2.4GHz, 5GHz, and 6GHz bands, it helps small businesses handle more connected devices while maintaining fast and stable connectivity for daily operations like cloud applications, video meetings, and point-of-sale systems. With improved spectrum efficiency and higher capacity, WiFi 7 ensures a smoother and more responsive network experience even in busy environments.

### Smart Mesh MLO for Small Business Networks

Smart Mesh MLO with tri-radio backhaul enables flexible, cable-free network deployment for small business environments by dynamically creating high-performance wireless links between access points. By leveraging simultaneous connectivity across 2.4GHz, 5GHz, and 6GHz bands, it reduces reliance on wired infrastructure while improving coverage, scalability, and deployment flexibility. This tri-radio Smart Mesh MLO design also helps reduce congestion, lower latency, and enhance overall network stability, ensuring smooth and reliable connectivity for cloud applications, collaboration tools, and daily business operations in small business settings.

### 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 provides small businesses with the flexibility to manage their network their way, allowing seamless switching between standalone mode and Nebula Control Center (NCC) cloud management without additional cost. With Nebula cloud platform, setup, installation, and ongoing management are simple and convenient, enabling users to monitor, configure, and deploy the network anytime, anywhere. Enterprise security features such as RADIUS authentication, captive portal, and access control policies can also be easily configured through Nebula to ensure secure user and guest network management. This makes it especially valuable for small business environments such as retail shops, cafés, and service locations, where networks can be easily deployed, secured, managed, and scaled as the business grows.

# Specifications

| Model                                                                             |                       | NWA90BE MAX                                                                                          |
|-----------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------------------------------------------|
| Product name                                                                      |                       | BE9300 6-Stream WiFi 7 Triple-Radio NebulaFlex Access Point                                          |
|  |                       |                                                                                                      |
| Wireless                                                                          |                       |                                                                                                      |
| Standard                                                                          |                       | IEEE802.11 be/ax/ac/n/g/b/a                                                                          |
| MIMO                                                                              |                       | MU-MIMO                                                                                              |
| Wireless speed                                                                    | 2.4GHz                | 688Mbps                                                                                              |
|                                                                                   | 5GHz                  | 2882Mbps                                                                                             |
|                                                                                   | 6GHz                  | 5764Mbps                                                                                             |
| Frequency band                                                                    | 2.4GHz                | USA (FCC): 2.412 to 2.462GHz<br>Europe (ETSI): 2.412 to 2.472GHz                                     |
|                                                                                   | 5GHz                  | USA (FCC): 5.15 to 5.35GHz; 5.470 to 5.850GHz<br>European (ETSI): 5.15 to 5.35GHz; 5.470 to 5.725GHz |
|                                                                                   | 6GHz                  | USA (FCC): 5.925 to 6.425GHz; 6.525 to 7.125GHz<br>European (ETSI): 5.925 to 6.425GHz                |
| Bandwidth                                                                         |                       | 20-, 40-, 80-, 160-, 240- and 320-MHz                                                                |
| Conducted typical transmit output power*1                                         | US (2.4GHz/5GHz/6GHz) | 26/25/22dBm                                                                                          |
|                                                                                   | EU (2.4GHz/5GHz/6GHz) | 20/25/22dBm                                                                                          |
| RF Design                                                                         |                       |                                                                                                      |
| Antenna type                                                                      |                       | Internal Antenna                                                                                     |
| Antenna gain                                                                      | 2.4GHz                | 3dBi, 2×2:2SS                                                                                        |
|                                                                                   | 5GHz                  | 4dBi, 2×2:2SS                                                                                        |
|                                                                                   | 6GHz                  | 4dBi, 2×2:2SS                                                                                        |
| Minimum receive sensitivity                                                       |                       | Min. Rx sensitivity up to -99 dBm                                                                    |
| WLAN Feature                                                                      |                       |                                                                                                      |
| Band steering                                                                     |                       | Yes                                                                                                  |
| WDS/ 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                        |                           | NWA90BE MAX                                                                                                                                                                                                                                                                                                                                              |  |
|------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Management                   |                           |                                                                                                                                                                                                                                                                                                                                                          |  |
| Operating mode               |                           | Cloud managed / Standalone                                                                                                                                                                                                                                                                                                                               |  |
| ZON Utility                  |                           | <ul style="list-style-type: none"><li>Discovery of Zyxel switches, APs and gateways</li><li>Centralized and batch configurations<ul style="list-style-type: none"><li>IP configuration</li><li>IP renew</li><li>Device reboot</li><li>Device locating</li><li>Web GUI access</li><li>Firmware upgrade</li><li>Password configuration</li></ul></li></ul> |  |
| Web UI/ CLI                  |                           | Yes                                                                                                                                                                                                                                                                                                                                                      |  |
| SNMP                         |                           | No                                                                                                                                                                                                                                                                                                                                                       |  |
| Physical Specifications      |                           |                                                                                                                                                                                                                                                                                                                                                          |  |
| Item                         | Dimensions (WxDxH)(mm/in) | 200 × 155 × 36 / 7.87 × 6.10 × 1.42                                                                                                                                                                                                                                                                                                                      |  |
|                              | Weight (g/lb)             | 576 / 1.26                                                                                                                                                                                                                                                                                                                                               |  |
| Packing                      | Dimensions (WxDxH)(mm/in) | 277 × 168 × 62 / 10.91 × 6.61 × 2.44                                                                                                                                                                                                                                                                                                                     |  |
|                              | Weight (g/lb)             | 912 / 2.01 (power adapter included)                                                                                                                                                                                                                                                                                                                      |  |
| Included accessories         |                           | <ul style="list-style-type: none"><li>Power adapter (optional)</li><li>Mount plate</li><li>Mounting screws</li></ul>                                                                                                                                                                                                                                     |  |
| MTBF (hr)                    |                           | 782,779                                                                                                                                                                                                                                                                                                                                                  |  |
| Physical Interfaces          |                           |                                                                                                                                                                                                                                                                                                                                                          |  |
| Ethernet port                |                           | 1 × 1/2.5GbE LAN                                                                                                                                                                                                                                                                                                                                         |  |
| Power                        |                           | <ul style="list-style-type: none"><li>PoE (802.3at): power draw 15W</li><li>DC input: USB PD 15VDC 2A (Type C)</li></ul>                                                                                                                                                                                                                                 |  |
| PoE modes                    | IEEE802.3af               | Not supported                                                                                                                                                                                                                                                                                                                                            |  |
|                              | 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, 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.

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