



## 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



nebula

## 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

|                     |   |
|---------------------|---|
| <b>Model</b>        | <b>NWA55AX PRO</b>  |
| <b>Product name</b> | AX3000 4-Stream WiFi 6 Dual-Radio NebulaFlex Outdoor Access Point |



| Wireless   |                         |  |
|--|-------------------------|--|
| <b>Standard</b>                                  |                         | IEEE802.11 ax/ac/n/g/b/a   |
| <b>MIMO</b>                                      |                         | MU-MIMO  |
| <b>Wireless speed</b>                            | <b>2.4GHz</b>           | 575Mbps  |
|  | <b>5GHz</b>             | 2400Mbps   |
| <b>Frequency band</b>                            | <b>2.4GHz</b>           | <ul style="list-style-type: none"> <li>USA (FCC): 2.412 to 2.462GHz</li> <li>Europe (ETSI): 2.412 to 2.472GHz</li> </ul>                                     |
|  | <b>5GHz</b>             | <ul style="list-style-type: none"> <li>USA (FCC): 5.15 to 5.35GHz; 5.470 to 5.850GHz</li> <li>European (ETSI): 5.15 to 5.35GHz; 5.470 to 5.725GHz</li> </ul> |
| <b>Bandwidth</b>                                 |                         | 20-, 40-, 80- and 160-MHz  |
| <b>Conducted typical transmit output power*1</b> | <b>US (2.4GHz/5GHz)</b> | 23/26dBm   |
|  | <b>EU (2.4GHz/5GHz)</b> | 20/25dBm   |
| RF Design  |                         |  |
| <b>Antenna type</b>                              |                         | Internal Antenna   |
| <b>Antenna gain</b>                              | <b>2.4GHz</b>           | 3dBi, 2x2:2SS  |
|  | <b>5GHz</b>             | 4dBi, 2x2:2SS  |
| <b>Minimum receive sensitivity</b>               |                         | Min. Rx sensitivity up to -99 dBm  |
| WLAN Features                                    |                         |  |
| <b>Band Steering</b>                             |                         | Yes  |
| <b>WDS/ Smart Mesh*2</b>                         |                         | Yes  |
| <b>Wireless Bridge</b>                           |                         | Yes  |
| <b>Fast roaming</b>                              |                         | Pre-authentication, PMK caching and 802.11r/k/v  |
| <b>DCS</b>                                       |                         | Yes  |
| <b>Load balancing</b>                            |                         | No   |
| <b>Advanced Cellular Coexistence</b>             |                         | Yes  |
| Security   |                         |  |
| <b>Encryption</b>                                |                         | WEP/WPA/WPA2/WPA3  |
| <b>Authentication</b>                            |                         | IEEE 802.1X/ RADIUS authentication   |
| <b>Access management</b>                         |                         | L2-isolation/ MAC filtering/ Rogue AP detection  |
| Networking                                       |                         |  |
| <b>IPv6</b>                                      |                         | Yes  |
| <b>VLANs</b>                                     |                         | Yes  |
| <b>WMM</b>                                       |                         | Yes  |
| <b>U-APSD</b>                                    |                         | Yes  |

|                                     |  |                                      |
|-------------------------------------|--|--------------------------------------|
| <b>Model</b>                        | <b>NWA55AX PRO</b>   |                                      |
| <b>Management</b>                   |  |                                      |
| <b>Operating mode</b>               | Cloud managed / standalone   |                                      |
| <b>Web UI/CLI</b>                   | Yes  |                                      |
| <b>SNMP</b>                         | No   |                                      |
| <b>Physical Specifications</b>      |  |                                      |
| <b>Item</b>                         | <b>Dimensions (WxDxH) (mm/in.)</b>   | 180 x 99 x 35.9 / 7.09 x 3.90 x 1.41 |
|                                     | <b>Weight (g/lb.)</b>  | 300/0.66                             |
| <b>Packing</b>                      | <b>Dimensions (WxDxH) (mm/in.)</b>   | 197 x 184 x 58 / 7.56 x 7.24 x 2.28  |
|                                     | <b>Weight (g/lb.)</b>  | 671/1.48                             |
| <b>Included accessories</b>         | <ul style="list-style-type: none"> <li>• PoE injector</li> <li>• Mounting screws</li> </ul>                |                                      |
| <b>MTBF (hr)</b>                    | 695,292  |                                      |
| <b>Physical Interfaces</b>          |  |                                      |
| <b>Ethernet port</b>                | 1 x 1GbE LAN   |                                      |
| <b>Power</b>                        | PoE (802.3af): power draw 12W  |                                      |
| <b>PoE modes</b>                    | <b>IEEE 802.3af</b>  | Unrestricted                         |
|                                     | <b>IEEE 802.3at</b>  | Unrestricted                         |
|                                     | <b>IEEE 802.3bt</b>  | Unrestricted                         |
| <b>Environmental Specifications</b> |  |                                      |
| <b>Weather Protection</b>           | IP55   |                                      |
| <b>Operating</b>                    | <b>Temperature</b>   | -30°C to 50°C/-22°F to 122°F         |
|                                     | <b>Humidity</b>  | 10% to 90% (non-condensing)          |
| <b>Storage</b>                      | <b>Temperature</b>   | -40°C to 70°C/-40°F to 158°F         |
|                                     | <b>Humidity</b>  | 10% to 90% (non-condensing)          |
| <b>Certifications</b>               |  |                                      |
| <b>Radio</b>                        | FCC Part 15C, FCC Part 15E; ETSI EN 300 328, EN 301 893; LP0002  |                                      |
| <b>EMC</b>                          | FCC Part 15B, EN 301 489-1; EN 301 489-17, EN55032, EN55035, EN61000-3-2/-3, , EN 60601-1-2, BSMI CNS15936 |                                      |
| <b>Safety</b>                       | 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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