



# EAP | Datasheet

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## EAP770

US: BE11000 Ceiling Mount Wi-Fi 7 Access Point

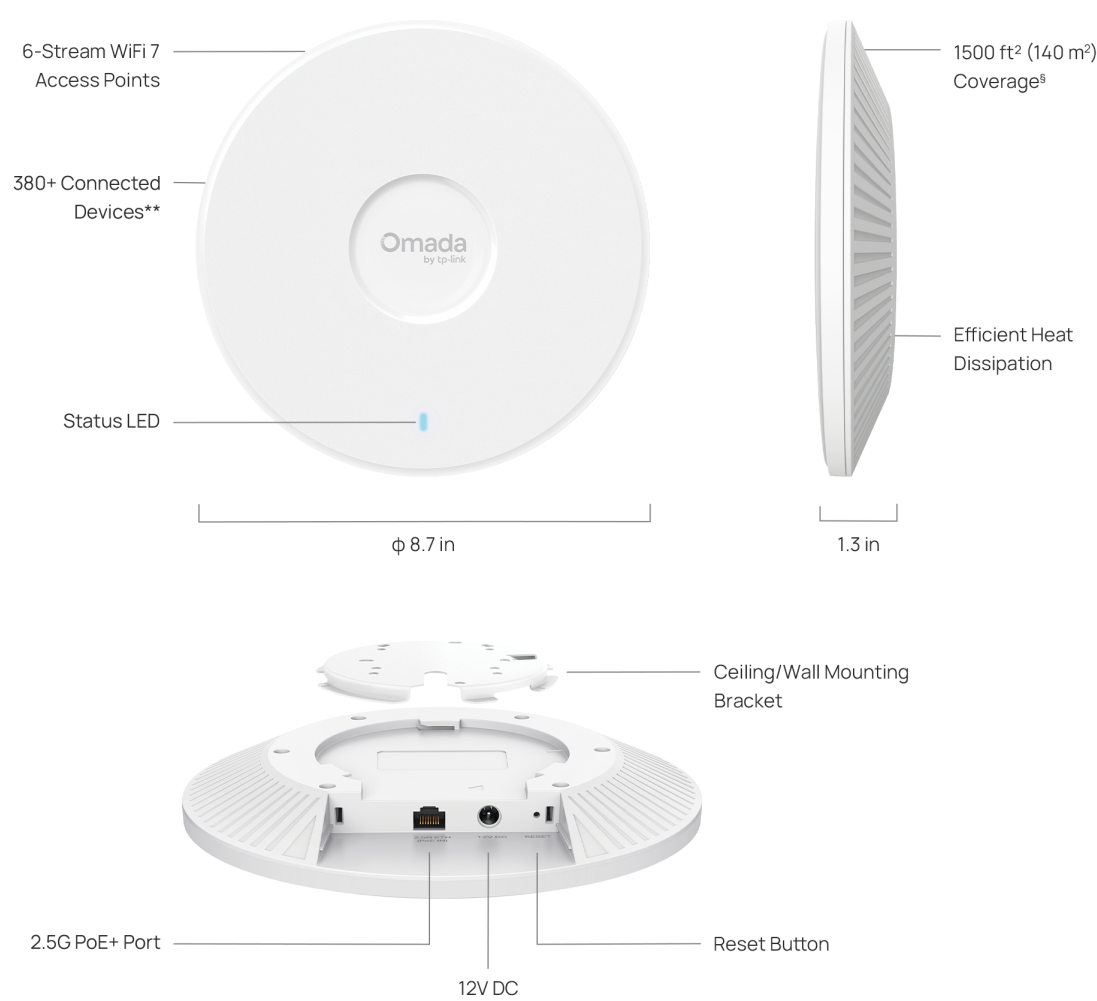
EU: BE9300 Ceiling Mount Wi-Fi 7 Access Point



## Highlights

- BE11000 Tri-Band Wi-Fi 7 for US and BE9300 Tri-Band Wi-Fi 7 for EU. Buffering will no longer be a problem.
- Clear 6 GHz Band: Brings cleaner and wider band resources to your Wi-Fi.
- 320 MHz Bandwidth: Up to 320 MHz bandwidth enables many more simultaneous transmissions at the fastest possible speeds.
- Low Latency and Interference: Multi-Link Operation, and Multi-RUs ensure high performance of your network.
- Advanced Functions: Supports centralized management, mesh, and seamless roaming.

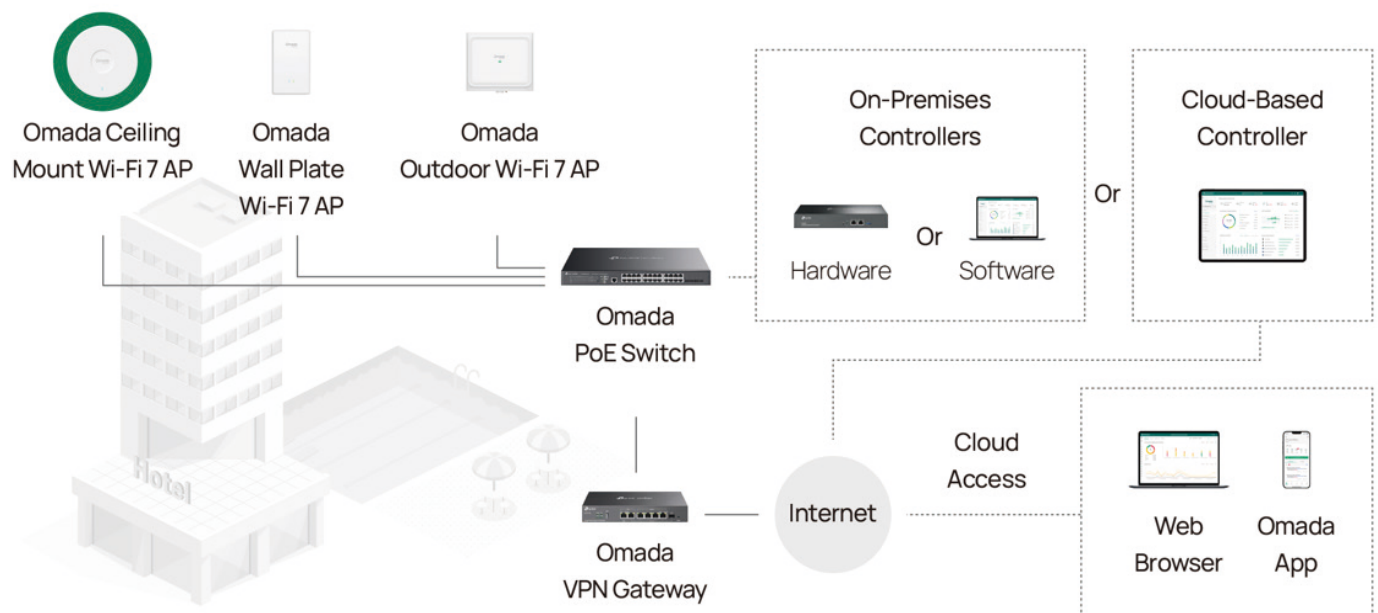
# Product Pictures



**\*\***The actual capacity depends on the wireless environment and client traffic and is generally less than the maximum number of client connections.  
**§**Coverage value is calculated based on laboratory testing. Actual coverage is not guaranteed and will vary as a result of client limitations and environmental factors.

# Omada Solution

Omada's Software Defined Networking (SDN) platform integrates network devices, including access points, switches, and gateways, providing 100% centralized cloud management. Omada creates a highly scalable network—all controlled from a single interface.



# Specifications

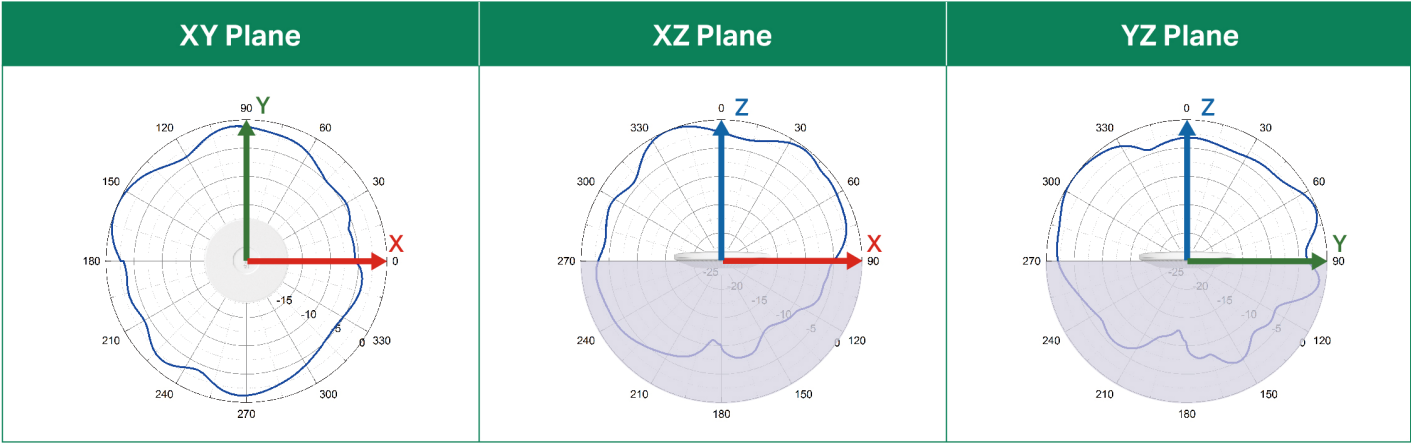
| Model                  |                                    | EAP770                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name                   |                                    | US: BE11000 Ceiling Mount Wi-Fi 7 Access Point<br>EU: BE9300 Ceiling Mount Wi-Fi 7 Access Point                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Main Design            | LAN Interfaces                     | 1x 2.5Gbps Ethernet Port                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                        | Wi-Fi Standards                    | IEEE 802.11 a/b/g/n/ac/ax/be                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                        | Maximum Data Rate                  | US: 688 Mbps (2.4 GHz) + 4324 Mbps (5 GHz) + 5765 Mbps (6 GHz)<br>EU: 688 Mbps (2.4 GHz) + 2882 Mbps (5 GHz) + 5765 Mbps (6 GHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                        | Wireless Client Capacity           | 2 GHz: 128, 5 GHz: 128, 6 GHz: 128                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                        | Antennas                           | 2.4GHz: 2 x 4dBi; 5GHz: 2 x 5dBi; 6GHz: 2 x 5dBi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                        | Bluetooth                          | 1 × 4.0 dBi, Bluetooth 5.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                        | Transmit Power                     | CE: < 20 dBm (2.4 GHz, EIRP); < 23 dBm (5 GHz, band 1&band 2, EIRP); < 28 dBm (5 GHz, band 3, EIRP); <23dBm (6 GHz, EIRP)<br>FCC:< 25 dBm (2.4 GHz); < 25 dBm (5 GHz); < 23 dBm (6 GHz)                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                        | Reception Sensitivity              | 2.4G:<br>11ax HE20 MCS0:-96dBm; 11ax HE20 MCS11:-66.5dBm<br>11ax HE40 MCS0:-93dBm; 11ax HE20 MCS11:-64dBm<br>5G:<br>11be EHT20MCS0:-94dBm; 11be EHT20MCS13:-63dBm;<br>11be EHT40MCS0:-90.5dBm; 11be EHT40MCS13:-60dBm;<br>11be EHT80MCS0:-88dBm; 11be EHT80MCS13:-57.5dBm;<br>11be EHT160MCS0:-85dBm; 11be EHT160MCS13:-55.5dBm<br>6G:<br>11be EHT20MCS0:-93dBm; 11be EHT20MCS13:-63dBm<br>11be EHT40MCS0:-90dBm; 11be EHT40MCS13:-60dBm<br>11be EHT80MCS0:-87.5dBm; 11be EHT80MCS13:-57.5dBm<br>11be EHT160MCS0:-84dBm; 11be EHT160MCS13:-55dBm<br>11be EHT320MCS0:-81.5dBm; 11be EHT320MCS13:-52.5dBm |
| Centralized Management | Omada Software Controller          | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                        | Omada Hardware Controller          | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                        | Omada APP                          | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Security               | Captive Portal Authentication      | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                        | Access Control                     | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                        | Maximum number of MAC Filter       | 4000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                        | Wireless Isolation between Clients | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                        | VLAN                               | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                        | Rogue AP Detection                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                        | Wireless Encryption                | WPA-Personal/Enterprise, WPA2-Personal/Enterprise, WPA3-Personal/Enterprise, OWE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

|                    |                               |                                                                                                                                                                                                                                                                             |
|--------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wireless Function  | Multiple SSIDs                | 24 (8 on each band)                                                                                                                                                                                                                                                         |
|                    | Channel                       | EU: 2G: 1~13; 5G: 36~140; 6G: 33~93<br>US: 2G:1~11; 5G: 36~165; 6G: 33~233                                                                                                                                                                                                  |
|                    | Enable/Disable Wireless Radio | •                                                                                                                                                                                                                                                                           |
|                    | Enable/Disable SSID Broadcast | •                                                                                                                                                                                                                                                                           |
|                    | Guest Network                 | •                                                                                                                                                                                                                                                                           |
|                    | Automatic Channel Assignment  | •                                                                                                                                                                                                                                                                           |
|                    | Transmit Power Control        | Adjust transmit Power on dBm                                                                                                                                                                                                                                                |
|                    | QoS (WMM)                     | •                                                                                                                                                                                                                                                                           |
|                    | Seamless Roaming              | •                                                                                                                                                                                                                                                                           |
|                    | Mesh                          | •                                                                                                                                                                                                                                                                           |
|                    | Beamforming                   | •                                                                                                                                                                                                                                                                           |
|                    | MU-MIMO                       | 2*2 DL/UL MU-MIMO                                                                                                                                                                                                                                                           |
|                    | OFDMA                         | DL/UL OFDMA                                                                                                                                                                                                                                                                 |
|                    | Rate Limit                    | Based on SSID/Client                                                                                                                                                                                                                                                        |
|                    | Load Balance                  | •                                                                                                                                                                                                                                                                           |
|                    | Airtime Fairness              | •                                                                                                                                                                                                                                                                           |
|                    | Band Steering                 | •                                                                                                                                                                                                                                                                           |
|                    | RADIUS Accounting             | •                                                                                                                                                                                                                                                                           |
|                    | MAC Authentication            | •                                                                                                                                                                                                                                                                           |
|                    | Reboot Schedule               | •                                                                                                                                                                                                                                                                           |
|                    | Wireless Schedule             | •                                                                                                                                                                                                                                                                           |
|                    | Wireless Statistics           | •                                                                                                                                                                                                                                                                           |
|                    | Static IP/Dynamic IP          | •                                                                                                                                                                                                                                                                           |
| Support Data Rates | 802.11be                      | 2G Band: 8Mbps to 688Mbps(MCS0-MCS13,NSS=1 to 2 BE20/40)<br>5G Band: EU: 8Mbps to 2882Mbps(MCS0—MCS13,NSS=1 to 2 BE20/40/80/160)<br>US: 8Mbps to 4324Mbps(MCS0—MCS13,NSS=1 to 2 BE20/40/80/160/240)<br>6G Band: 8Mbps to 5765Mbps(MCS0—MCS13,NSS=1 to 2 BE20/40/80/160/320) |
|                    | 802.11ax                      | 2G Band: 8Mbps to 574Mbps(MCS0—MCS11,NSS=1 to 2 HE20/40)<br>5G Band: 8Mbps to 2402Mbps(MCS0—MCS11, NSS=1 to 2 HE20/40/80/160)<br>6G Band: 8Mbps to 2402Mbps(MCS0—MCS11, NSS=1 to 2 HE20/40/80/160)                                                                          |
|                    | 802.11ac                      | 6.5Mbps to 2166.7Mbps(MCS0—MCS11,NSS=1 to 2 VHT20/40/80/160)                                                                                                                                                                                                                |
|                    | 802.11n                       | 6.5Mbps to 300Mbps(MCS0—MCS15,HT20/40)                                                                                                                                                                                                                                      |
|                    | 802.11g                       | 6, 9, 12, 18, 24, 36, 48 ,54 Mbps                                                                                                                                                                                                                                           |
|                    | 802.11b                       | 1, 2, 5.5, 11 Mbps                                                                                                                                                                                                                                                          |
|                    | 802.11a                       | 6, 9, 12, 18, 24, 36, 48 ,54 Mbps                                                                                                                                                                                                                                           |

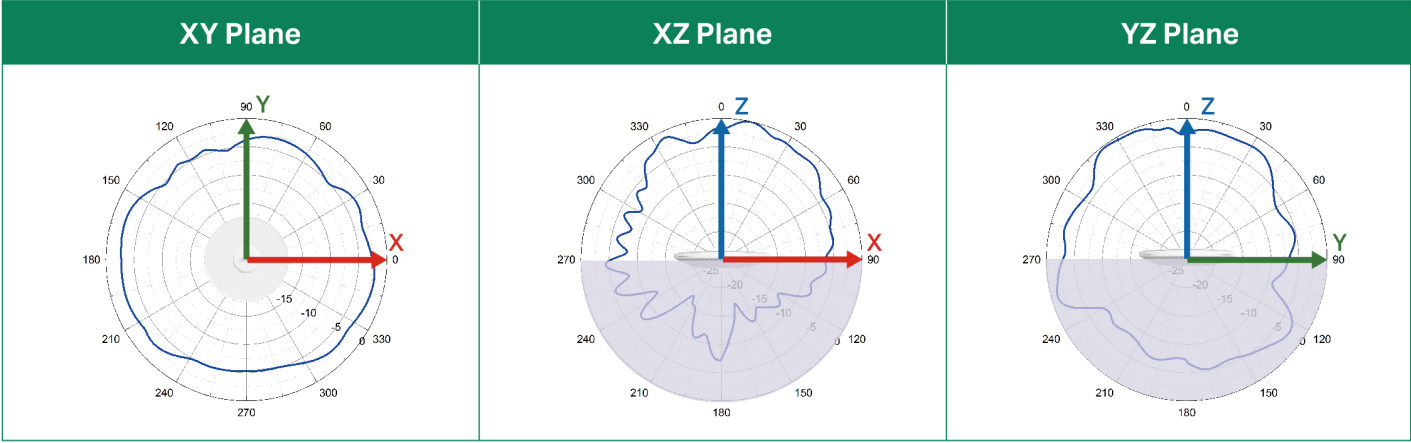
|                        |                                    |                                                                                                                                                                                                    |
|------------------------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Management             | LED ON/OFF Control                 | •                                                                                                                                                                                                  |
|                        | Management MAC Access Control      | •                                                                                                                                                                                                  |
|                        | Web-based Management               | •                                                                                                                                                                                                  |
|                        | SNMP                               | v1, v2c, v3                                                                                                                                                                                        |
|                        | SSH                                | •                                                                                                                                                                                                  |
|                        | Restore & Backup                   | •                                                                                                                                                                                                  |
|                        | Firmware update via Web            | •                                                                                                                                                                                                  |
|                        | NTP                                | •                                                                                                                                                                                                  |
|                        | System Log                         | •                                                                                                                                                                                                  |
|                        | Email Alerts                       | •                                                                                                                                                                                                  |
|                        |                                    |                                                                                                                                                                                                    |
| Physical & Environment | Power Supply                       | 802.3at PoE or 12V/2.5A DC                                                                                                                                                                         |
|                        | Maximum Power Consumption          | EU: 24.05 W (For PoE); 20.92 W (For DC);<br>US: 25.4 W (For PoE); 21.8 W (For DC);                                                                                                                 |
|                        | Reset                              | •                                                                                                                                                                                                  |
|                        | Mounting                           | Ceiling / Wall / Junction box mouting (Kits included)                                                                                                                                              |
| Others                 | Certifications                     | CE, FCC, IC                                                                                                                                                                                        |
|                        | Dimensions (W x D x H)             | 8.7 x 8.7 x 1.3 in (220 x 220 x 32.5 mm)                                                                                                                                                           |
|                        | Net Weight                         | 730g                                                                                                                                                                                               |
|                        | Enclosure Material / Rack Material | Top cover: PC<br>Bottom shell: aluminum alloy<br>Mounting rack: stainless steel                                                                                                                    |
|                        | Lightning Protection               | 4KV                                                                                                                                                                                                |
|                        | Environment                        | Operating Temperature: 0 °C–40 °C (32 °F–104 °F);<br>Storage Temperature: -40 °C–70 °C (-40 °F–158 °F);<br>Operating Humidity: 10%–90% non-condensing;<br>Storage Humidity: 5%–90% non-condensing; |

# Antenna Radiation Patterns

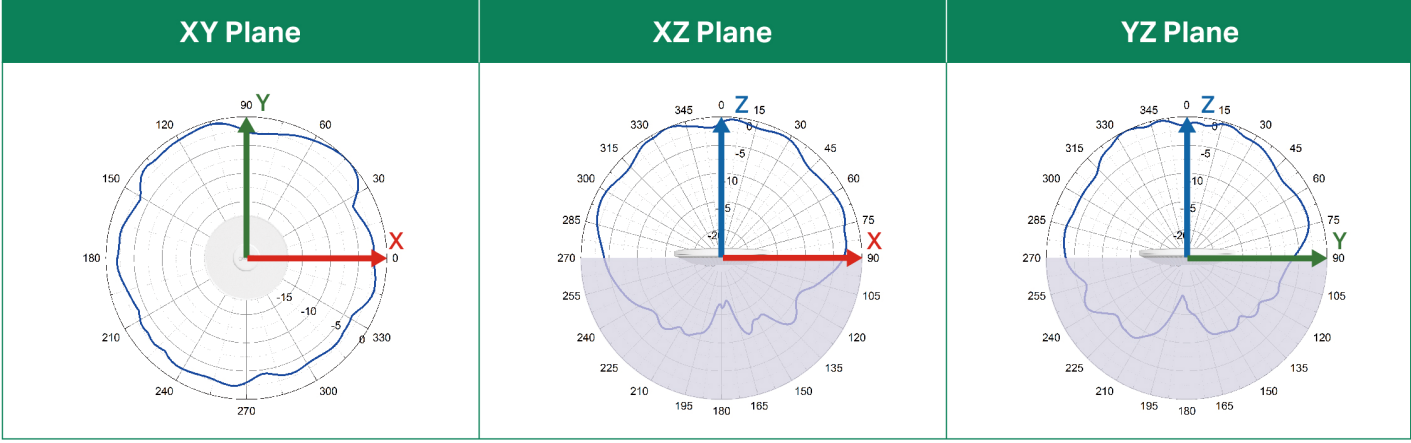
## 2.4 GHz



## 5 GHz



## 6 GHz



# Disclaimers

- \* Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. The 320 MHz bandwidth is only available on the 6 GHz band. Simultaneously, the 320 MHz bandwidth on the 6 GHz band and 160 MHz bandwidth on the 5 GHz band may be unavailable in some regions/countries due to regulatory restrictions. Double channel width and speed refer to 320 MHz compared to 160 MHz for WiFi 6 routers. Actual wireless data throughput, wireless coverage, and connected devices are not guaranteed and will vary as a result of internet service provider factors, network conditions, client limitations, and environmental factors, including building materials, obstacles, volume and density of traffic, and client location.
- \* Use of Wi-Fi 7 (802.11be), Wi-Fi 6 (802.11ax), and features including Multi-Link Operation (MLO), 320 MHz Bandwidth, 6 GHz, 4K-QAM, Multi-RUs, OFDMA, MU-MIMO and BSS Color requires clients to also support the corresponding features.
- \* Zero-Touch Provisioning and Auto Channel Selection and Power Adjustment require the use of Omada Cloud-Based Controller. Go to <https://www.omadanetworks.com/en/omada-cloud-based-controller/product-list/> to confirm which models are compatible with Omada Cloud-Based Controller.
- \* The actual capacity depends on the wireless environment and client traffic and is generally less than the maximum number of client connections.
- \* Coverage value is calculated based on laboratory testing. Actual coverage is not guaranteed and will vary as a result of client limitations and environmental factors.
- \* Omada Mesh, AI Roaming, Captive Portal, and Cloud Access require the use of an Omada SDN controller. Please refer to the User Guides of Omada SDN controllers for configuration methods.