Omada by tp-link

SONORA PROFESSIONAL SERVICES
INTÉGRATION AUDIOVISUELLE

Datasheet


# Omada BE11000 (US) / BE9300 (EU) Tri-Band Omnidirectional Indoor/Outdoor Wi-Fi 7 Access Point

Model: EAP772-Outdoor

# Product Overview

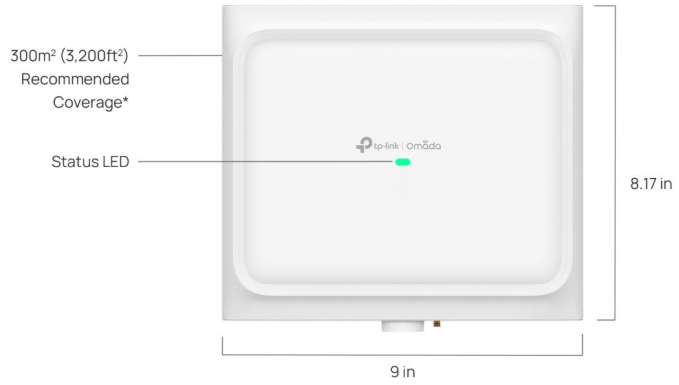
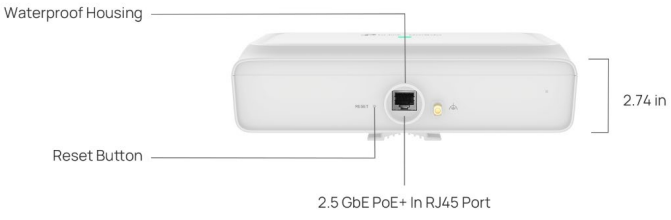
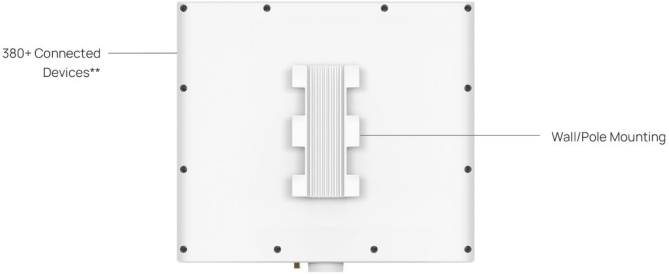
EAP772-Outdoor is Omada's first Tri-Band Six-Stream Omnidirectional BE11000 (US) / BE9300 (EU) Outdoor Access Point. With its 6 GHz band unlocked by AFC, EAP772-Outdoor achieves true tri-band omnidirectional coverage.

An impressive 300 $m^2$ (3,200 $ft^2$) recommended omnidirectional coverage, ensuring stable connectivity across outdoor areas, and an IP68-rated rugged design, the highest industry standard for dust and water resistance, the EAP772-Outdoor delivers robust outdoor Wi-Fi for hotels, business parks, yards, farms, and other business outbuildings.

- **Tri-Band Six-Stream Outdoor Wi-Fi 7:** Up to 11 Gbps for US and up to 9.3 Gbps for EU
- **6 GHz Band Unlocked by AFC:** AFC enables 6 GHz band outdoor uses*
- **True Tri-Band Omnidirectional Coverage:** 300 $m^2$ (3,200 $ft^2$) recommended coverage
- **Professional Hardware Design:** Industry-leading IP68-rated, 1× 2.5G PoE+ port, 2.4 GHz dual-polarized antennas
- **Easy and Quick Setup:** Wall/pole mounting; Omada SDN for one-click setup
- **Advanced Features:** Centralized management, mesh, and seamless roaming

* AFC availability varies by region or country. For the supported areas, please refer to: https://www.omadanetworks.com/support/faq/4373/

# Product Appearance

| Front View | Side View |
|---|---|
|  |  |
| **Bottom View** | **Back View** |
|  |  |

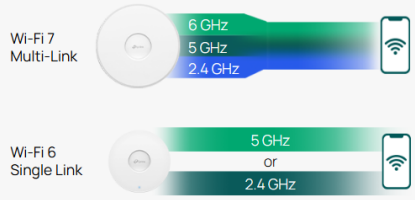
# Feature Descriptions

## Omada Wi-Fi 7 Technology: A Significant Upgrade from Wi-Fi 6

Wi-Fi 7, also referred to as IEEE 802.11be or extremely high throughput (EHT), is the next-generation Wi-Fi standard.

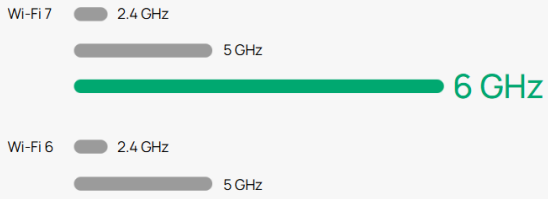
Building on Wi-Fi 6, Wi-Fi 7 incorporates advancements such as 320 MHz bandwidth, 4096-QAM, multi-resource unit (RU), multi-link operation (MLO), enhanced MU-MIMO, and more. These innovations enable Wi-Fi 7 to achieve higher speed, larger bandwidth, and lower latency compared to Wi-Fi 6. Wi-Fi 7 is projected to support speeds up to 30 Gbps, roughly three times faster than Wi-Fi 6.

### 3× More Reliable with Multi-Link Operation



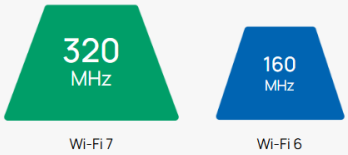

Wi-Fi 6 devices primarily rely on a single link for data transmission. In contrast, Wi-Fi 7 introduces Multi-Link Operation (MLO), enabling devices to utilize multiple links simultaneously, thereby achieving higher throughput, lower latency, and improved reliability.

### Faster and Higher Capacity with the New 6 GHz Band



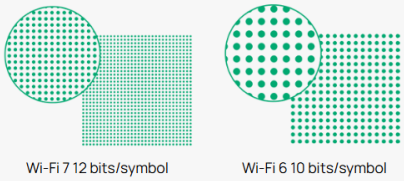

The new 6 GHz band offers a larger spectrum and cleaner channels compared to traditional bands, delivering higher capacity, faster connectivity, and less interference.

### 2× Bandwidth with 320 MHz



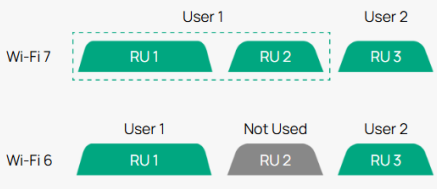

With 320 MHz ultra-wide channels, Wi-Fi 7 doubles the bandwidth of Wi-Fi 6's 160 MHz and the number of subcarriers, delivering dramatically higher data transfer rates.

### 20% More Data Transmission with 4K-QAM



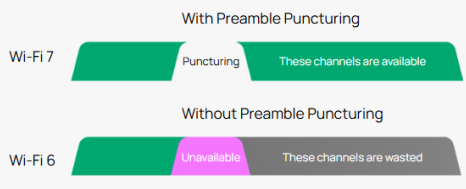

4096-QAM enables each symbol to carry 12 bits instead of 10, increasing theoretical transmission rates by 20% compared to Wi-Fi 6's 1024-QAM. This higher transmission rate boosts data throughput, delivering enhanced speeds and improved network reliability.

### Reduced Latency with Multi-RU




Wi-Fi 6 restricts each user to a single resource unit (RU), limiting spectrum flexibility. Wi-Fi 7 overcomes this limitation by allowing multiple RUs to be allocated to a single user and enabling RU aggregation, improving data throughput and spectral efficiency.

### More Efficiency Under Interference with Preamble Puncturing




Preamble puncturing identifies and excludes interference-affected subcarriers, reducing spectral waste and boosting efficiency in challenging wireless conditions.

## True Tri-Band Omnidirectional Coverage, 6G Band First Unlocked by AFC

The 6 GHz band, enabled by AFC compliance, provides cleaner spectrum resources and reduced signal interference, allowing the EAP772-Outdoor to deliver true tri-band omnidirectional coverage, critical for reliable connectivity in crowded outdoor settings. Users can enjoy uninterrupted outdoor connectivity, even using bandwidth-intensive applications like 4K/8K gaming, live streaming, and real-time data transfers.

For more details on AFC, please visit: https://www.omadanetworks.com/support/faq/4373/

## Industry-Leading IP68 Weatherproof Design for Extreme Conditions

The IP68-rated enclosure offers complete dustproof protection and effectively prevents damage from water immersion in water deeper than five feet for more than 30 minutes, allowing it to withstand harsh environments such as heavy rain, strong winds, and humid conditions. Additionally, an extended temperature tolerance of -30°C to 70°C makes it ideal for extremely hot and cold environments.

## Professional Hardware Architecture

The EAP772-Outdoor features a 2.5G port for greater bandwidth, supporting high-traffic applications like HD video streaming and online gaming. With 802.3at PoE support, there's no need for more wiring. Plug it into the existing Ethernet cables, and you're ready.

## Dual-Polarized 2.4 GHz Antennas, Better Anti-Interference Performance

Equipped with dual-polarized 2.4 GHz antennas, the EAP772-Outdoor brings enhanced anti-interference capabilities. Users can easily switch between vertical and horizontal antenna polarization to avoid interference in different outdoor scenarios through the Omada controllers. This design maximizes signal stability in complex outdoor layouts, even in urban areas with strong base station interference.

## GPS—Know Your Devices Anywhere

See at a glance the location of access points in outdoor scenarios on a GPS map via the Omada controllers*, enabling easy management visualization.

* Omada Cloud Standard and on-premises Omada controllers version 5.15.24 and above support the GPS Map.

## Easy and Quick Setup

Flexible installation options, including wall and pole mounts, enable quick deployment in diverse settings. Integration with Omada SDN allows for one-click adoption and automatic device discovery, streamlining the setup process.

## Cloud-Based Centralized Management

As part of Omada's unified SDN ecosystem, the EAP772-Outdoor works harmoniously with Omada switches, gateways, and controllers. Businesses gain end-to-end visibility, automated optimization, zero-touch provisioning, and batch configuration— all managed from a single cloud interface.

# Specifications

## Hardware Specifications

| Item | Description | |
|---|---|---|
| Wi-Fi Standards | 6 GHz: IEEE 802.11ax/be<br>5 GHz: IEEE 802.11a/n/ac/ax/be<br>2.4 GHz: IEEE 802.11b/g/n/ax/be | |
| 802.11be | Spatial Streams | • 2.4 GHz: 2×2 Uplink/Downlink MU-MIMO with 2 spatial streams<br>• 5 GHz: 2×2 Uplink/Downlink MU-MIMO with 2 spatial streams<br>• 6 GHz: 2×2 Uplink/Downlink MU-MIMO with 2 spatial streams |
| | Frequency Bands | 2.400 to 2.4835 GHz ISM<br>5.150 to 5.250 GHz U-NII-1<br>5.250 to 5.350 GHz U-NII-2A<br>5.470 to 5.725 GHz U-NII-2C<br>5.725 to 5.850 GHz U-NII-3/ISM<br>6.105 to 6.425 GHz U-NII-5<br>6.525 to 6.875 GHz U-NII-7<br>*Note: Country-Specific Restriction Apply |
| | Bandwidth | 2.4 GHz: 20 MHz/40 MHz<br>5 GHz: 20 MHz/40 MHz/80 MHz/160/240 MHz<br>6 GHz: 20 MHz/40 MHz/80 MHz/160 MHz/320 MHz<br>*Note: Country-Specific Restriction Apply |
| | Wireless Data Rate | 2.4 GHz + 5 GHz + 6 GHz:10777 Mbps<br>• 2.4 GHz: 8.6 Mbps to 688 Mbps (MCS0-MCS13, NSS=1 to 2, EHT20/40)<br>• 5 GHz: 8.6 Mbps to 4324 Mbps (MCS0-MCS13, NSS=1 to 2, EHT20/40/80/160/240)<br>• 6 GHz: 8.6 Mbps to 5765 Mbps (MCS0-MCS13, NSS=1 to 2, EHT20/40/80/160/320) |
| | Radio Technology | Uplink/downlink OFDMA (Orthogonal Frequency-Division Multiple Access) |
| | Modulation Type | 4096-QAM, 1024-QAM, 256-QAM. 64-QAM, 16-QAM, QPSK, BPSK |
| | Frame Aggregation | • A-MPDU (Aggregate MAC Protocol Data Unit) for Tx/Rx<br>• A-MSDU (Aggregate MAC Service Data Unit) for Tx/Rx |
| | Others | • Preamble Puncturing<br>• BSS Coloring<br>• Multi-Link Operation (MLO)<br>• TWT (Target Wake Time)<br>• Maximal Ratio Combining (MRC)<br>• Transmit Beamforming (TxBF)<br>• Wi-Fi Protect Access 3 (WPA3)<br>• Dynamic Frequency Selection (DFS)<br>• Cycle Delay Diversity (CDD)<br>• Cycle Shift Diversity (CSD)<br>• Space-Time Block Coding (STBC)<br>• Low-Density Parity Check (LDPC) |

| Item | Description | |
|---|---|---|
| 802.11ax | Spatial Streams | • 2.4 GHz: 2×2 Uplink/Downlink MU-MIMO with 2 spatial streams<br>• 5 GHz: 2×2 Uplink/Downlink MU-MIMO with 2 spatial streams<br>• 6 GHz: 2×2 Uplink/Downlink MU-MIMO with 2 spatial streams |
| | Frequency Bands | 2.400 to 2.4835 GHz ISM<br>5.150 to 5.250 GHz U-NII-1<br>5.250 to 5.350 GHz U-NII-2A<br>5.470 to 5.725 GHz U-NII-2C<br>5.725 to 5.850 GHz U-NII-3/ISM<br>5.925 to 6.425 GHz U-NII-5<br>6.525 to 6.875 GHz U-NII-7<br>*Note: Country-Specific Restriction Apply |
| | Bandwidth | 2.4 GHz: 20 MHz/40 MHz<br>5 GHz: 20 MHz/40 MHz/80 MHz/160 MHz<br>6 GHz: 20 MHz/40 MHz/80 MHz/160 MHz<br>*Note: Country-Specific Restriction Apply |
| | Wireless Data Rate | • 2.4 GHz: 8.6 Mbps to 573 Mbps (MCS0-MCS11, NSS=1 to 2, HE20/40)<br>• 5 GHz: 8.6 Mbps to 2402 Mbps (MCS0-MCS11, NSS=1 to 2, HE20/40/80/160)<br>• 6 GHz: 8.6 Mbps to 2402 Mbps (MCS0-MCS11, NSS=1 to 2, HE20/40/80/160)<br>*Note: Country-Specific Restriction Apply |
| | Radio Technology | Uplink/downlink OFDMA (Orthogonal Frequency-Division Multiple Access) |
| | Modulation Type | 1024-QAM, 256-QAM. 64-QAM, 16-QAM, QPSK, BPSK |
| | Frame Aggregation | • A-MPDU (Aggregate MAC Protocol Data Unit) for Tx/Rx<br>• A-MSDU (Aggregate MAC Service Data Unit) for Tx/Rx |
| | Others | • TWT (Target Wake Time)<br>• MRC (Maximal Ratio Combining)<br>• TxBF (Transmit Beamforming)<br>• WPA3 (Wi-Fi Protect Access 3)<br>• DFS (Dynamic Frequency Selection)<br>• CDD (Cycle Delay Diversity)<br>• CSD (Cycle Shift Diversity)<br>• STBC (Space-Time Block Coding)<br>• LDPC (Low-Density Parity-Check) |
| 802.11ac | Spatial Streams | • 5 GHz: 2×2 Downlink MU-MIMO with 2 spatial streams |
| | Frequency Bands | 5.150 to 5.250 GHz U-NII-1<br>5.250 to 5.350 GHz U-NII-2A<br>5.470 to 5.725 GHz U-NII-2C<br>5.725 to 5.850 GHz U-NII-3/ISM<br>*Note: Country-Specific Restriction Apply |
| | Bandwidth | 5 GHz: 20 MHz/40 MHz/80/160 MHz |
| | Wireless Data Rate | • 5 GHz: 8.6 Mbps to 160M Mbps (MCS0-MCS9, NSS=1 to 2, VHT20/40/80/160) |

| Item | Description | |
|---|---|---|
| | Radio Technology | OFDM (Orthogonal Frequency-Division Multiplexing) |
| | Modulation Type | 256-QAM. 64-QAM, 16-QAM, QPSK, BPSK |
| | Frame Aggregation | • A-MPDU (Aggregate MAC Protocol Data Unit) for Tx/Rx<br>• A-MSDU (Aggregate MAC Service Data Unit) for Tx/Rx |
| | Others | • MRC (Maximal Ratio Combining)<br>• TxBF (Transmit Beamforming)<br>DFS (Dynamic Frequency Selection)<br>• CDD (Cycle Delay Diversity)<br>• CSD (Cycle Shift Diversity)<br>• STBC (Space-Time Block Coding)<br>• LDPC (Low-Density Parity-Check) |
| 802.11n | Spatial Streams | • 2.4 GHz: 2×2 MIMO with 2 spatial streams<br>• 5 GHz: 2×2 MIMO with 2 spatial streams |
| | Frequency Bands | 2.400 to 2.4835 GHz ISM<br>5.150 to 5.250 GHz U-NII-1<br>5.250 to 5.350 GHz U-NII-2A<br>5.470 to 5.725 GHz U-NII-2C<br>5.725 to 5.850 GHz U-NII-3/ISM<br>*Note: Country-Specific Restriction Apply |
| | Bandwidth | 20 MHz/40 MHz |
| | Wireless Data Rate | • 2.4 GHz: 8.6 Mbps to 300 Mbps (MCS0-MCS7, NSS=1 to 2, HT20/40)<br>• 5 GHz: 8.6 Mbps to 300 Mbps (MCS0-MCS7, NSS=1 to 2, HT20/40) |
| | Radio Technology | OFDM (Orthogonal Frequency-Division Multiplexing) |
| | Modulation Type | 64-QAM, 16-QAM, QPSK, BPSK |
| | Frame Aggregation | • A-MPDU (Aggregate MAC Protocol Data Unit) for Tx/Rx<br>• A-MSDU (Aggregate MAC Service Data Unit) for Tx/Rx |
| | Others | • MRC (Maximal Ratio Combining)<br>• TxBF (Transmit Beamforming)<br>• DFS (Dynamic Frequency Selection)<br>• CDD (Cycle Delay Diversity)<br>• CSD (Cycle Shift Diversity)<br>• STBC (Space-Time Block Coding)<br>• LDPC (Low-Density Parity-Check) |
| Antenna | Wi-Fi | • 2.4 GHz: 2 × 4 dBi (peak gain), internal omnidirectional antennas<br>• 5 GHz: 2 × 6 dBi (peak gain), internal omnidirectional antennas<br>• 6 GHz: 2 × 6 dBi (peak gain), internal omnidirectional antennas<br>*Note: The gains above are the single-antenna peak gains. |
| | IoT | • Bluetooth: 1 × 3 dBi (peak gain), internal omnidirectional antennas |
| | GNSS | 1× 3dBi (peak gain), integrated omnidirectional antennas |

| Item | Description | |
|---|---|---|
| Interfaces | • 1 x 10M/100M/1000M/2.5Gbps Multigigabit Ethernet Port (RJ45); PoE in<br>• 1 x Grounding Terminal | |
| IoT | BLE 5.2, 1Mbps | |
| GNSS | GPS (L1: 1574.2MHz), Galileo, GLOANASS, BDS (B1) | |
| Memory | • Flash: 128Mbit<br>• DRAM: 8192Mbit | |
| Button | 1 × Reset button: Press the button for longer than 5 seconds to make the device restore to factory settings. | |
| Indicator | 1 × multi-color system LED indicates on the front:<br>• Power-on status<br>• Firmware initialization or upgrade status<br>• Uplink service status<br>• Error status | |
| Reliability | MTBF (Mean Time between Failure) | - hours at the operating temperature of 25℃ (77℉) |
| Power Supply | Input | 802.3at PoE+: 42.5 - 57 V=0.36A |
| | Output | / |
| Power Consumption | • 802.3at (PoE+): 23w, 2.4GHz radio 2×2, 5GHz radio 2×2, 6GHz radio 2×2, wired link rate can be up to 2.5 Gbps, etc.<br>• Idle mode: 8W(PoE) | |
| Surge/Lightning Protection | Ethernet Ports: ±6 kV | |
| ESD/EMP Protection | • Air discharge: ±8 kV<br>• Contact discharge: ±4 kV<br>*Note: ESD/EMP Protection means Electrostatic Discharge/Electromagnetic Pulse Protection independently. | |
| Tx Power | Maximum transmit power | CE (ERIP)<br>• 2.4 GHz: 20 dBm<br>• 5 GHz: 23 dBm in U-NII-1, 23 dBm in U-NII-2A, 28 dBm in U-NII-2C,<br>• 6 GHz: 23 dBm<br>FCC (Conducted Power)<br>• 2.4 GHz: 25 dBm<br>• 5 GHz: 25 dBm in U-NII-1, 25 dBm in U-NII-2A, 25 dBm in U-NII-2C, 25 dBm in U-NII-3<br>• 6 GHz: 25 dBm<br>*Note: MIMO combined power, excluding antenna gains. The actual transmit power depends on local laws and regulations. |

| Item | Description | |
|---|---|---|
| | Minimum transmit power | CE (ERIP)<br>• 2.4 GHz: 7 dBm<br>• 5 GHz: 7 dBm in U-NII-1, 7 dBm in U-NII-2A, 7 dBm in U-NII-2C, 7 dBm in U-NII-3<br>• 6 GHz: 7 dBm<br>FCC (Conducted Power)<br>• 2.4 GHz: 4 dBm<br>• 5 GHz: 4 dBm in U-NII-1, 4 dBm in U-NII-2A, 4 dBm in U-NII-2C, 4dBm in U-NII-3<br>• 6 GHz: 4 dBm<br>*Note: MIMO combined power, excluding antenna gains. The actual transmit power depends on local laws and regulations. |
| | Adjustable power increment | 1 dBm |
| Environment | Temperature | • Operating: -40℃ to +70℃ (-40℉ to +158℉)<br>• Storage: -30℃ to +70℃ (-22℉ to +158℉) |
| | Humidity | • Operating: 10% to 90% (non-condensing)<br>• Storage: 5% to 90% (non-condensing) |
| | Altitude | • Storage: up to + 2000m(6561feet)<br>• Operating: up to + 2000m(6561feet) |
| | Windproof | Class 16 |
| | Weatherproof Enclosure | IP68 |
| Unit | Dimensions (W×D×H) | • Main Unit: 230×207.5×69.7 mm (9.06 in. x 8.17 in. x 2.74 in.)<br>• Shipping Unit: 324×104×245 mm (12.76 in. x 4.09 in. x 9.65 in.) |
| | Weight | • Main Unit: 1.41 kg (3.11 lbs)<br>• Mounting Bracket: 0.048 kg (0.11 lbs)<br>• Shipping Unit: 1.83 kg (4.1 lbs) |
| | Mounting | • Pole Mount (Kits included)<br>• Wall Mount (Kits included) |

## Software Specifications

| Item | Description | |
|---|---|---|
| Wireless Functions | Maximum number of BSSIDs | 24 (8 on each band) |
| | Maximum number of associated STAs | 380+ |
| | Guest Network | Yes |
| | ACS (Automatic Channel Selection) | Yes |
| | Airtime Fairness | Yes |
| | Band Steering | Yes |
| | 802.11 Rate Control | Yes |
| | Rogue AP Detection | Yes |
| | URL Filtering | Yes |
| | RF Scan | Yes |
| | WLAN Optimization | Yes |
| | WIDS/WIPS | No |
| | Lock to AP | Yes |
| | Rate Limit | • SSID Rate Limit<br>• Client Rame Limit |
| | Load Balance | • Maximum Associated Clients<br>• RSSI Threshold |
| | MLO | • 2.4 GHz+5 GHz<br>• 2.4 GHz+6 GHz<br>• 5 GHz+6 GHz<br>• 2.4 GHz+5 GHz+6 GHz |
| | Roaming | • 802.11 k<br>• 802.11v<br>• 802.11r<br>• Non-Stick Roaming<br>• Ping-Pong Roaming Suppression<br>• AI Roaming<br>*Note: Only support Layer 2 Roaming currently. |
| | Multicast/Broadcast Management | • Multicast-to-Unicast Conversion<br>• ARP-to-Unicast Conversation<br>• Multicast Filtering<br>• Multicast/Broadcast Rate Limit |

| Item | Description | |
|---|---|---|
| | QoS (Quality of Service) | • WMM (Wi-Fi Multimedia)<br>• DSCP (Differentiated Services Code Point)<br>• U-APSD (Unscheduled Automatic Power Save Delivery) |
| Security and Authentication | ACL | |
| | MAC Filter | |
| | 802.1X Authentication | |
| | MAC-Based Authentication | |
| | • None<br>• Enhanced Open<br>• WPA/WPA2/WPA3-Personal<br>• WPA/WPA2/WPA3-Enterprise | |
| | Radius Accounting | |
| | • PPSK without Radius<br>• PPSK with Radius (Generic Radius with bound MAC/EKMS/Generic Radius with unbound MAC) | |
| | Captive Portal | • No Authentication<br>• Simple Password<br>• Hotspot (Voucher / Local User / SMS / RADIUS / Form Auth)<br>• RADIUS Server<br>• External LDAP Server<br>• External Portal Server<br>• Pre-Authentication Access<br>• Authentication-Free Client |
| | EAP Types | • EAP-TLS<br>• EAP-TTLS<br>• EAP-PEAP<br>• EAP-CHAP<br>• EAP-SIM<br>• EAP-AKA<br>• EAP-GTC<br>• EAP-FAST<br>• EAP-PEAP<br>• EAP-MD5<br>• EAP-MSCHAPv2<br>• PEAPv0<br>• PEAPv1 |
| Management methods | Omada Controller | • Omada Controller V5.15.24 and above<br>• Omada Essential V5.15.24 and above |
| | App | Omada App V4.20 and above |
| | Standalone Management | Yes |

| Item | Description | |
|---|---|---|
| | Standalone Mesh | No |
| | SSH | Yes |
| | SNMP | v1, v2c, v3 |
| Operating Modes | AP | Yes |
| | Repeater | Yes |
| | Mesh | Yes |
| System Feature | System Log | Yes |
| | Reboot Schedule | Yes |
| | WLAN Schedule | Yes |
| | NTP (Network Time Protocol) | Yes |
| | Email Alerts | Yes |
| | Firmware Upgrade | Yes |
| | Restore & Backup | Yes |
| | LED Control | Yes |
| Network Features | VLAN | • SSID VLAN<br>• Dynamic VLAN<br>• Management VLAN |
| | Static IP / DHCP Client | Yes |
| | IPv4/IPv6 | Yes |
| | LLDP (Link Layer Discovery Protocol) | Yes |
| | mDNS | Yes |
| | Tools | • Ping / Traceroute / DNSLookup / ARP Table<br>• Packet Capture<br>• Terminal |

# Standards Compliance and Certifications

| Item | Category | Description |
|---|---|---|
| Standards compliance | IEEE Standards | • IEEE 802.11a/b/g/n/ac/ax/be<br>• IEEE 802.11e/i/k/v/r<br>• IEEE 802.1x/q<br>• IEEE 802.3at<br>• IEEE 802.3ab<br>• IEEE 802.3bz<br>• IEEE 802.3x |
| | Radio Standards | • ETSI EN 300 328<br>• ETSI EN 301 893<br>• EN 303 413<br>• EN 303 687<br>• EN 50385 EN50665 EN IEC 62311<br>• FCC Part 15E<br>• RSS-247, RSS-GEN<br>• LP0002 |
| | EMC standards | • EN 55032<br>• EN 55035<br>• EN 301489-1<br>• EN 301489-17<br>• EN 301489-19<br>• FCC Part 15C<br>• ICES-003 issue7<br>• CNS 15936 |
| | Safety Standards | • EN 62368-1<br>• IEC 62368-1<br>• CNS 15598-1 |
| | Security Standards | • WPA-Personal/Enterprise<br>• WPA2-Personal/Enterprise<br>• WPA3-Personal/Enterprise<br>• OWE |
| | RoHS | • Directive 2011/65/EU, Directive (EU) 2015/863<br>• EN IEC 63000: 2018 |
| | Others | • Equipment Radio Regulations: 2008 (including amendments)<br>• VCCI-CISPR 32 |
| Certifications | • Wi-Fi Alliance: Wi-Fi 7 (R1), Wi-Fi 6 (R2), Wi-Fi 6E, WPA3-R3, WPA3-Suite B, Enhanced Open Security<br>• FCC/CE/NCC/VCCI/JRF/BSMI | |

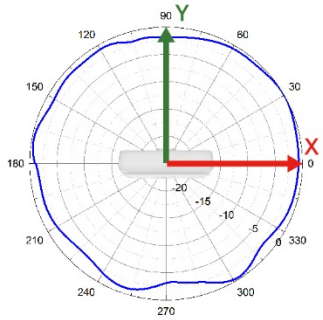
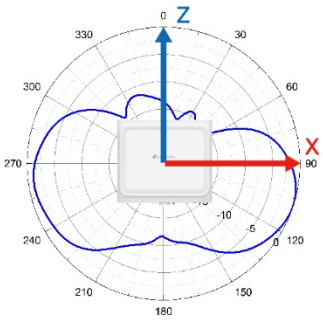
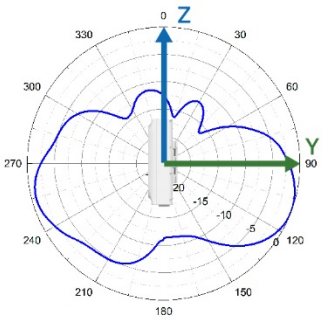
# RF Performance

| Frequency Band | Wi-Fi Protocol & Bandwidth | MCS Index / Data Rate | EU/US Maximum Transmit Power (dBm) per transmit chain | Receiver Sensitivity (dBm) per receive chain |
|---|---|---|---|---|
| 2.4 GHz | 802.11n, HT20 | MCS0 | 15/22 | -96 |
| | | MCS7 | 15/22 | -78 |
| | 802.11n, HT40 | MCS0 | 15/22 | -93 |
| | | MCS7 | 15/22 | -75 |
| | 802.11ax, HE20 | MCS0 | 15/22 | -96 |
| | | MCS11 | 15/20 | -66 |
| | 802.11ax, HE40 | MCS0 | 15/22 | -93.0 |
| | | MCS11 | 15/20 | -66.0 |
| | 802.11be, EHT20 | MCS0 | 15/22 | -96 |
| | | MCS13 | 15/19 | NA |
| | 802.11be, EHT40 | MCS0 | 15/22 | -93 |
| | | MCS13 | 15/19 | NA |
| 5 GHz | 802.11n, HT20 | MCS0 | 22/22 | -95 |
| | | MCS7 | 20/20 | -75.5 |
| | 802.11n, HT40 | MCS0 | 22/22 | -91.5 |
| | | MCS7 | 20/20 | -72 |
| | 802.11ac, HT20 | MCS0 | 22/22 | -95.5 |
| | | MCS7 | 19/19 | -76 |
| | 802.11ac, HT40 | MCS0 | 22/22 | -92.5 |
| | | MCS9 | 19/19 | -67 |
| | 802.11ac, HT80 | MCS0 | 22/22 | -89.5 |
| | | MCS9 | 19/19 | -64 |
| | 802.11ax, HE20 | MCS0 | 22/22 | -95 |
| | | MCS11 | 18/18 | -66 |
| | 802.11ax, HE40 | MCS0 | 22/22 | -92.5 |
| | | MCS11 | 18/18 | -64.5 |
| | 802.11ax, HE80 | MCS0 | 22/22 | -89 |
| | | MCS11 | 18/18 | -61 |
| | 802.11ax, HE160 | MCS0 | 22/22 | -88 |

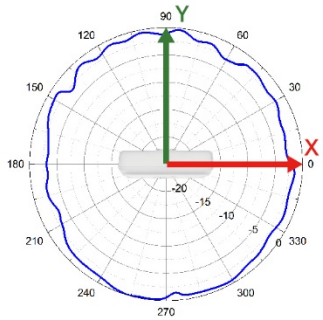
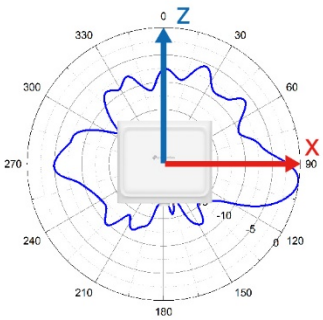
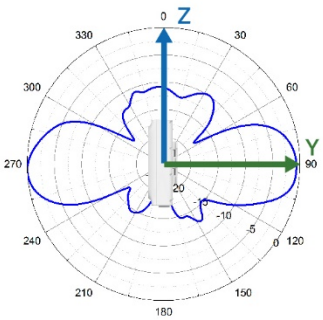
| Frequency Band | Wi-Fi Protocol & Bandwidth | MCS Index / Data Rate | EU/US Maximum Transmit Power (dBm) per transmit chain | Receiver Sensitivity (dBm) per receive chain |
|---|---|---|---|---|
| | | MCS11 | 18/18 | -61 |
| | 802.11be, EHT20 | MCS0 | 22/22 | -96 |
| | | MCS13 | 18/18 | -61 |
| | 802.11be, EHT40 | MCS0 | 22/22 | -93 |
| | | MCS13 | 18/18 | -57 |
| | 802.11be, EHT80 | MCS0 | 22/22 | -89 |
| | | MCS13 | 18/18 | -55 |
| | 802.11be, EHT160 | MCS0 | 22/22 | -87 |
| | | MCS13 | 18/18 | -55 |
| 6 GHz | 802.11ax, HE20 | MCS0 | 17/22 | -95 |
| | | MCS11 | 17/18 | -65 |
| | 802.11ax, HE40 | MCS0 | 17/22 | -92 |
| | | MCS11 | 17/18 | -64.5 |
| | 802.11ax, HE80 | MCS0 | 17/22 | -89 |
| | | MCS11 | 17/18 | -60.5 |
| | 802.11ax, HE160 | MCS0 | 17/22 | -87 |
| | | MCS11 | 17/18 | -61 |
| | 802.11be, EHT20 | MCS0 | 17/22 | -95.0 |
| | | MCS13 | 17/18 | -60.5 |
| | 802.11be, EHT40 | MCS0 | 17/22 | -91.5 |
| | | MCS13 | 17/18 | -57 |
| | 802.11be, EHT80 | MCS0 | 17/22 | -89 |
| | | MCS13 | 17/18 | -54 |
| | 802.11be, EHT160 | MCS0 | 17/22 | -86.5 |
| | | MCS13 | 17/17 | -53.5 |
| | 802.11be, EHT320 | MCS0 | 17/22 | -82.5 |
| | | MCS13 | 16/16 | -53.5 |

# Antenna Radiation Patterns

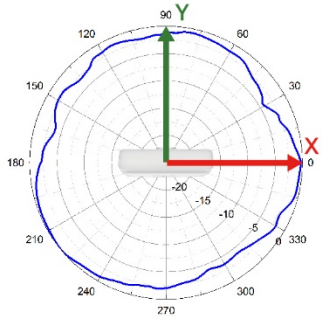
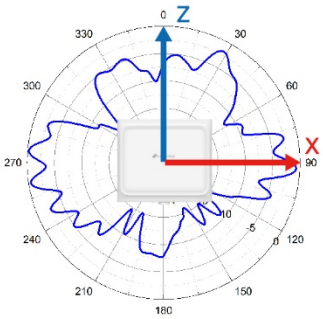
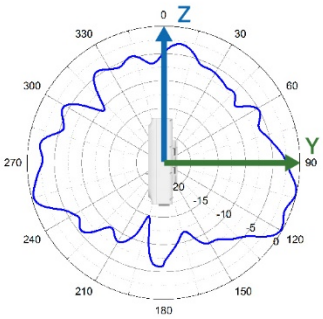
## 2.4 GHz

| XY Plane | XZ Plane | YZ Plane |
|---|---|---|
|  |  |  |

## 5 GHz

| XY Plane | XZ Plane | YZ Plane |
|---|---|---|
|  |  |  |

## 6 GHz

| XY Plane | XZ Plane | YZ Plane |
|---|---|---|
|  |  |  |

# Package Contents

| Item | Quantity |
|---|---|
| EAP772-Outdoor | 1 |
| Waterproof Kit | 1 (See the picture below for details) |
| Mounting Kit | 1 (See the picture below for details) |
| Installation Guide | 1 |


# Support Services

We are committed to providing you with comprehensive and reliable support services to ensure seamless experience with TP-Link Business products.

- Email Contact: https://support.omadanetworks.com/email-feedback/
- Online Chat Contact: https://support.omadanetworks.com/contact-support/
- Warranty Services: https://www.omadanetworks.com/support/replacement-warranty/

# Revision History

| Version | Date | Description |
|---|---|---|
| V1.0 | 2025-04-24 | Initial release. |

* 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 160 MHz and 240 MHz bandwidths or the 320 MHz bandwidth might not be available on the 5 GHz band or the 6 GHz band, respectively, in some regions/countries due to regulatory restrictions. 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, 4K-QAM, Multi-RUs, OFDMA, and MU-MIMO requires clients to also support the corresponding features.

* Omada Mesh, Seamless Roaming, Cloud Access, and Captive Portal require the use of Omada controllers. Go to the Omada Mesh Product List to find all the models supported by Omada mesh technology and refer to the User Guides of Omada controllers for configuration methods.

* Coverage is calculated based on laboratory testing. Actual coverage is not guaranteed and will vary as a result of client limitations and environmental factors.

* The actual capacity depends on the wireless environment and client traffic and is generally less than the maximum number of client connections.

* Zero-Touch Provisioning requires the use of the Omada Cloud-Based Controller. The Omada Cloud-Based Controller offers the Essentials version of cloud services for free, while the Standard version, which includes advanced features, requires a license.

* PoE budget calculations are based on laboratory testing. Actual PoE power budget is not guaranteed and will vary as a result of client limitations and environmental factors.

* Protection against lightning and electro-static discharge may be achieved through proper product setup, grounding and cable shielding. Refer to the instruction manual and consult an IT professional to assist with setting up this product.

* Some models featured in this guide may be unavailable in your country or region. Visit TP-Link website for local sales information: **https://www.omadanetworks.com**. Specifications are subject to change without notice.