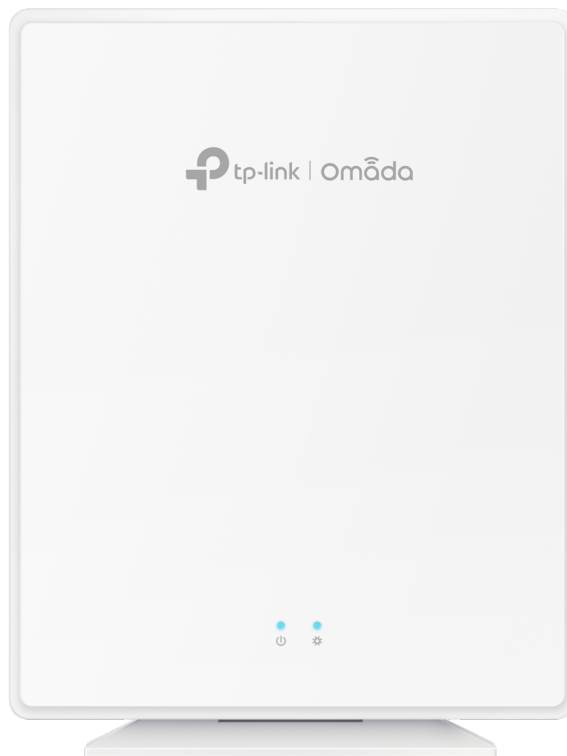


EAP | Datasheet

EAP650-Desktop

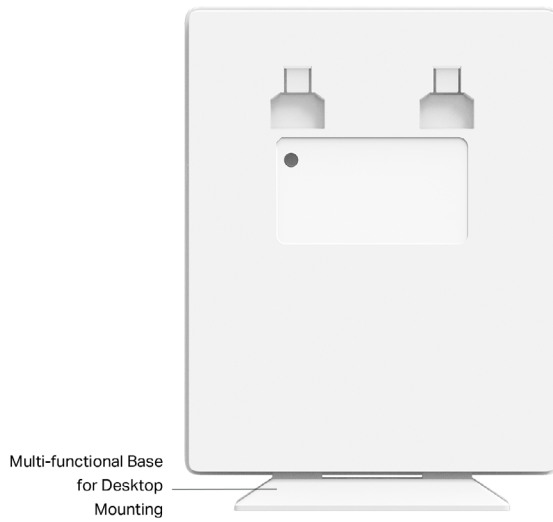
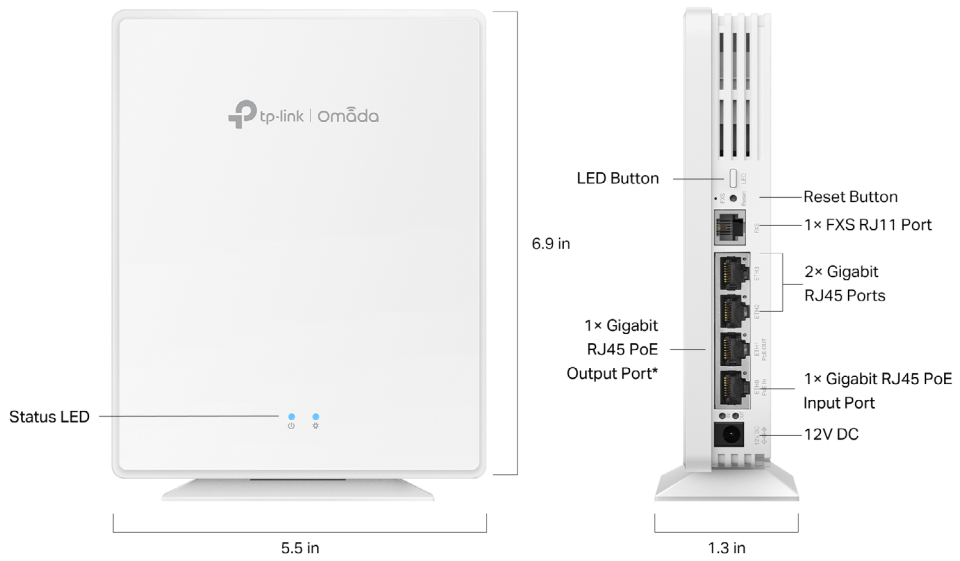
AX3000 Desktop Wi-Fi 6 Access Point



Highlights

- **Blazing-Fast AX3000 WiFi 6 Speeds:** 574 Mbps on 2.4 GHz and 2402 Mbps on 5GHz totals 2976 Mbps WiFi speeds. *
- **Multiple Gigabit Ports:** Connect multiple devices with 4× Gigabit Ethernet Ports.
- **Convenient Deployment:** Supports both 802.3bt PoE++ and DC (adapter included) for easy and quick deployment.
- **No Installation needed:** Supports desktop installation without the need for permanent setup.
- **High Flexibility:** Provide flexible installation solutions for both desktop and wall mounting.
- **Stay Smooth with Seamless Roaming:** Users can enjoy seamless streaming across the property with their devices switching effortlessly between access points. *
- **Centralized Cloud Management:** Integrates with the Omada SDN platform for Centralized Management. *

Product Pictures



*The PoE-out feature requires 802.3at/bt PoE Input.

Specifications

| | | |
|------------------------------------|------------------------------|--|
| Model | | EAP650-Desktop |
| Name | | AX3000 Desktop Wi-Fi 6 Access Point |
| Main Design | Interfaces | 4 x 1Gbps Ethernet Ports + 1 x FXS Port (One Ethernet port supports PoE Out: 802.3at/af output at 802.3bt input, 802.3af class 2 output at 802.3at input) |
| | Wi-Fi Standards | IEEE 802.11 a/b/g/n/ac/ax |
| | Maximum Data Rate | 574 Mbps (2.4 GHz) +2402 Mbps (5 GHz) |
| | Wireless Client Capacity | 250+ |
| | Antennas | 2.4 GHz: 2x 5 dBi 5 GHz: 3x 4.7 dBi |
| | Transmit Power | CE: < 20 dBm (2.4 GHz, EIRP); < 23 dBm (5 GHz, band 1&band 2, EIRP); < 29 dBm (5 GHz, band 3, EIRP); FCC: < 26 dBm (2.4 GHz); < 27 dBm (5 GHz) |
| Centralized Management | Reception Sensitivity | 2.4GHz: 11ax HE20 MCS0:-95.5dBm; 11ax HE20 MCS11:-65.5dBm 11ax HE40 MCS0:-94dBm; 11ax HE40 MCS11:-64.5dBm 5GHz: 11ax HE20 MCS0:-94.5dBm; 11ax HE20 MCS11:-64.5dBm 11ax HE40 MCS0:-92.5dBm; 11ax HE40 MCS11:-62.5dBm 11ax HE80 MCS0:-90dBm; 11ax HE80 MCS11:-60.5dBm 11ax HE160 MCS0:-86.5dBm; 11ax HE160 MCS11:-57dBm |
| | Omada Software Controller | • |
| | Omada Hardware Controller | • |
| | Omada Cloud-Based 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 |
| 802.1X Support | • | |

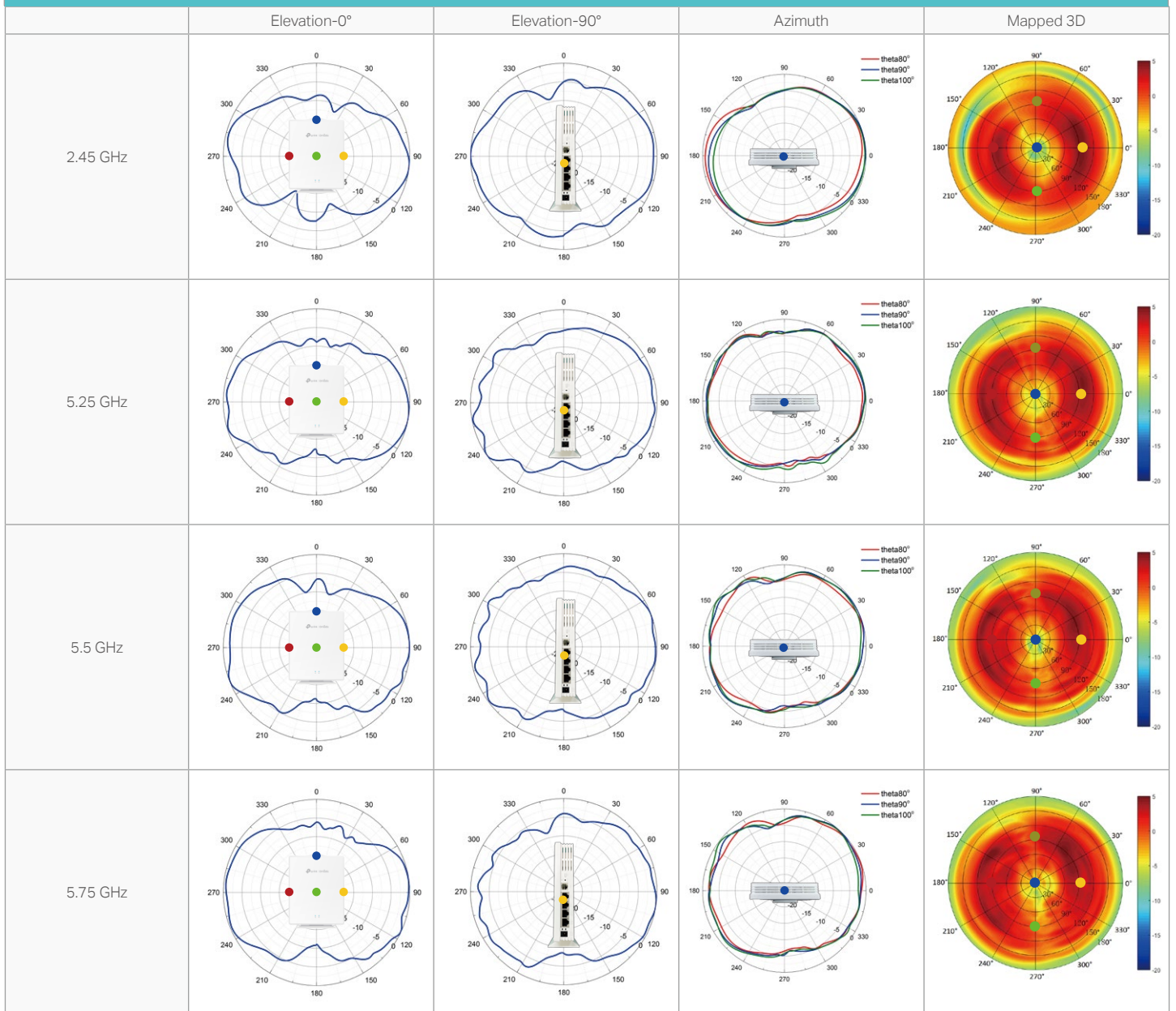
| Model | | EAP650-Desktop |
|----------------------|-------------------------------|--|
| Wireless Function | Multiple SSIDs | 16 (8 on each band) |
| | Channel | EU: 2G:1-13 5G: 36,40,44,48,52,56,60,64,100,104,108,112,116,120,124,128,132,136,140 US: 2G:1-11 5G: 36,40,44,48,52,56,60,64,100,104,108,112,116,120,124,128,132,136,140,149,153,157,161,165 |
| | 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 MU-MIMO DL/UL |
| | MIMO | 2×2 (2.4G & 5G) MU-MIMO |
| | OFDMA | UL/DL 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 | 802.11ax | 8 Mbps to 2402 Mbps (MCS0-MCS11, NSS = 1 to 2 HE20/40/80/160) |
| | 802.11ac | 6.5 Mbps to 866 Mbps (MCS0-MCS9, NSS = 1 to 2 VHT20/40/80/160) |
| | 802.11n | 6.5 Mbps to 300 Mbps (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 |

| | | | | | |
|---------------------------|--|-------------------------------------|--|---|--|
| Model | | EAP650-Desktop | | | |
| 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 | 802.3 af/at/bt PoE or 12V/1.5A DC *PoE Out requires 802.3at/bt PoE power supply | | |
| Maximum Power Consumption | | Mode | Power Consumption | System Configuration | Wi-Fi Radios |
| | | DC power | EU: 15.8W US: 16.8W (PoE Out off) | <ul style="list-style-type: none"> 4*1Gbps Ethernet Enable BLE Enable FXS Enable PoE Out Disable | EU: 2.4GHz(2x2) Tx 20dBm (EIRP) 5GHz(2x2) Tx 23dBm(band 1&band 2, EIRP), 29 dBm (band 3, EIRP) US: 2.4GHz(2x2) Tx 26dBm 5GHz(2x2) Tx 27dBm(band 1&band 4), 23.5 dBm (band 2&band 3) |
| | | 802.3bt | EU: 18.7W US: 19.9W (PoE Out off) | <ul style="list-style-type: none"> 4*1Gbps Ethernet Enable BLE Enable FXS Enable PoE Out Enable Supports 802.3at/af (selectable) | EU: 2.4GHz(2x2) Tx 20dBm (EIRP) 5GHz(2x2) Tx 23dBm(band 1&band 2, EIRP), 29 dBm (band 3, EIRP) US: 2.4GHz(2x2) Tx 26dBm 5GHz(2x2) Tx 27dBm(band 1&band 4), 23.5 dBm (band 2&band 3) |
| | | 802.3at | EU: 18.7W US: 19.9W (PoE Out off) | <ul style="list-style-type: none"> 4*1Gbps Ethernet Enable BLE Enable FXS Enable PoE Out Enable Supports 802.3af class2(selectable) | EU: 2.4GHz(2x2) Tx 20dBm (EIRP) 5GHz(2x2) Tx 23dBm(band 1&band 2, EIRP), 29 dBm (band 3, EIRP) US: 2.4GHz(2x2) Tx 26dBm 5GHz(2x2) Tx 27dBm(band 1&band 4), 23.5 dBm (band 2&band 3) |
| 802.3af | | EU: 10W US: 12W (PoE Out off) | <ul style="list-style-type: none"> 4*1Gbps Ethernet Enable BLE Enable FXS Enable PoE Out Disable | EU: 2.4GHz(2x2) Tx 20dBm (EIRP) 5GHz Disable US: 2.4GHz(2x2) Tx 26dBm 5GHz Disable | |
| Reset | | • | | | |
| Mounting | Desktop / Wall mouting (Kits included) | | | | |

| | | |
|--------|------------------------------------|--|
| Model | | EAP650-Desktop |
| Others | Certifications | CE, FCC, RoHS, IC |
| | Dimensions (W x D x H) | 175×140×33 mm |
| | Net Weight | 452g (excluding mounting base) |
| | Enclosure Material / Rack Material | Shell: PC Mounting base: PC |
| | Lightning Protection | AC 2KV (Adapter) |
| | Environment | Operating Temperature: 0 °C–40 °C (32 °F–104 °F); Storage Temperature: -40 °C–70 °C (-40 °F–158 °F); Operating Humidity: 10%–90% non-condensing; Storage Humidity: 5%–90% non-condensing; |

Antenna Radiation Patterns

EAP650-Desktop



Disclaimers

- * Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput and wireless coverage are not guaranteed. They will vary as a result of 1) environmental factors, including building materials, physical objects, and obstacles, 2) network conditions, including local interference, volume and density of traffic, product location, network complexity, and network overhead; and 3) client limitations, including rated performance, location, connection, quality, and client condition.
- * The actual capacity depends on the wireless environment and client traffic and is generally less than the maximum number of client connections.
- * Actual network speed may be limited by the rate of the product's Ethernet WAN or LAN port, the rate supported by the network cable, Internet service provider factors and other environmental conditions.
- * Use of WiFi 6 (802.11ax) and its features, such as OFDMA and 1024-QAM, require clients to support the corresponding features.
- * Omada Mesh, Seamless Roaming, and Captive Portal require Omada SDN controllers. Go to <https://www.tp-link.com/en/omada-mesh/product-list/> to find all the models supported by Omada mesh technology, and refer to the User Guides of Omada SDN controllers for configuration methods.
- * Zero-Touch Provisioning, Auto Channel Selection, and Power Adjustment require the use of Omada Cloud-Based Controller. Go to <https://www.tp-link.com/en/omada-cloud-based-controller/product-list/> to confirm which models are compatible with Omada Cloud-Based Controller.

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

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