

Omada Business Cloud SDN Solution

Omada EAP - Business Wi-Fi Series




Omada SDN Controller



EAP650-Wall

EAP Product List

Wall Plate 802.11ax AP

| | |
|-------------------|---|
| Picture |  |
| Model | EAP650-Wall |
| Product | AX3000 Wall Plate Wi-Fi 6 Access Point |
| Speed | 2.4 GHz: 574 Mbps 5 GHz: 2402 Mbps |
| Ethernet Port | 2x Gigabit Ethernet Port |
| Power Supply | 802.3afPoE |
| Internal Antennas | 2.4 GHz: 2x 3 dBi 5 GHz: 2x 5 dBi |

Specifications

Wall Plate 802.11ax AP

| Model | | EAP650-Wall |
|------------------------|------------------------------------|---|
| Name | | AX3000 Wall Plate Wi-Fi 6 Access Point |
| Main Design | LAN Interfaces | 2x Gigabit Ethernet Port |
| | 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 | 100+ |
| | Antennas | 2.4 GHz: 2x 3 dBi 5 GHz: 2x 5 dBi |
| | Transmit Power | CE: < 20 dBm (2.4 GHz, EIRP); < 22 dBm (5 GHz, EIRP) |
| 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 |
| | 802.1X Support | • |
| Wireless Function | Multiple SSIDs | 16 (8 on each band) |
| | 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 | - |
| | 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 2166.7 Mbps (MCS0-MCS9, NSS = 1 to 2 VHT20/40/80/160) |
| | 802.11n | 6.5 Mbps to 500 Mbps (MCS0-MCS15, 1024QAM, 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 |

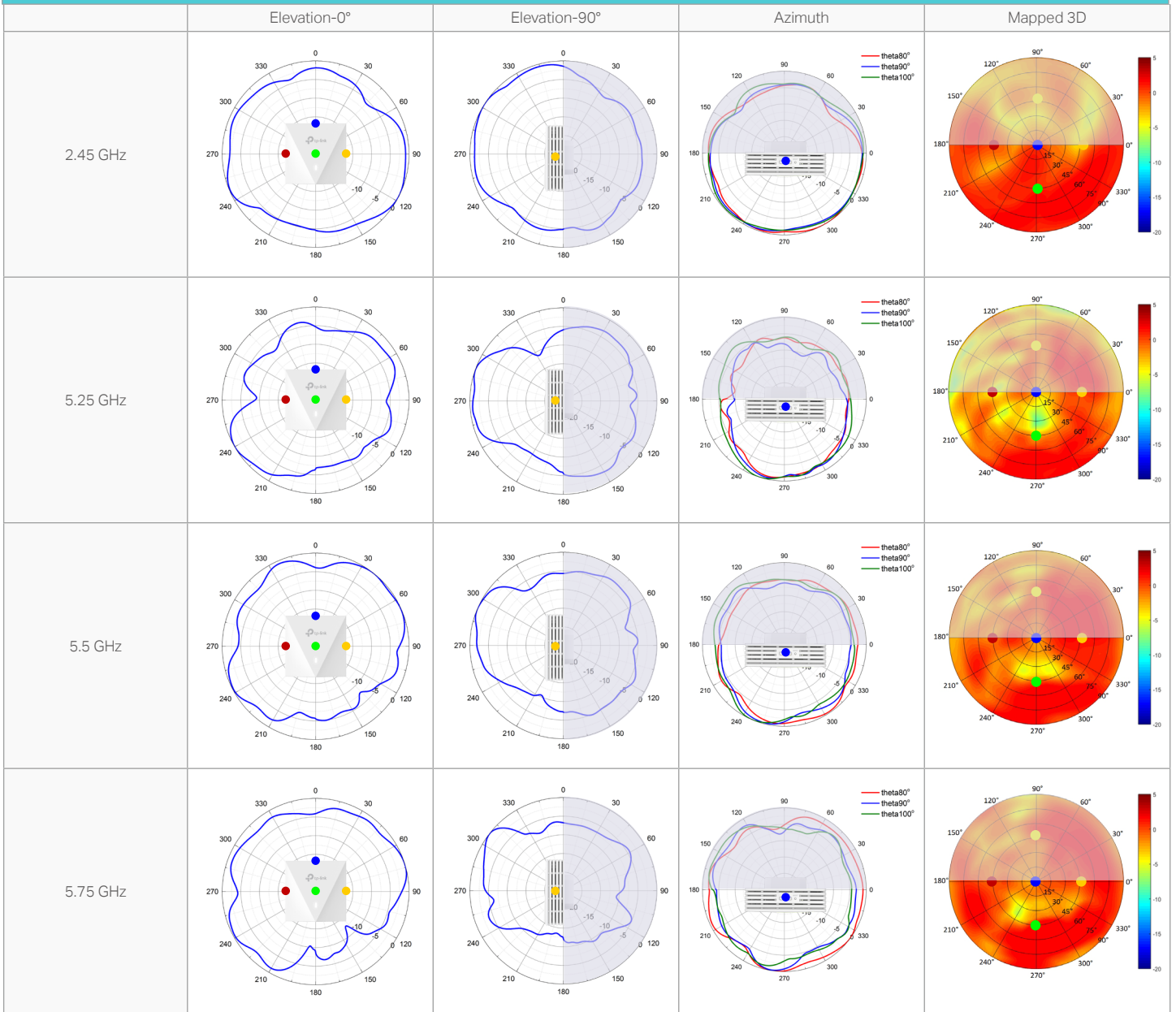
Wall Plate 802.11ax AP

| Model | | EAP650-Wall |
|------------------------|-------------------------------|--|
| 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 | 802.3af PoE |
| | Maximum Power Consumption | EU: 11.5 W (For 802.3af PoE) |
| | Reset | • |
| | Mounting | Wall mouting (Kits included) |
| Others | Certifications | CE, RoHS |
| | Dimensions (W x D x H) | 86 x 86 x 42.2 mm |
| | 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

Wall Plate AP

EAP650-Wall



Disclaimers

Wireless Speed and Range Disclaimer

Maximum wireless transmission rates are the physical rates derived from IEEE Standard 802.11 specifications. Range and coverage specifications were defined according to test results under normal usage conditions. Actual wireless transmission rate and wireless coverage are not guaranteed, and 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.

Wireless Client Capacity Disclaimer

Wireless client capacity specifications were defined according to test results under normal usage conditions. Actual wireless client capacity is not guaranteed, and 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.

Ethernet Port Limitation Disclaimer

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.

MU-MIMO Disclaimer

(Only for certain devices)

MU-MIMO capability requires client devices that also support MU-MIMO.

Seamless Roaming Disclaimer

(Only for certain devices)

Seamless roaming requires both the access point and client devices to support 802.11k and 802.11v protocols.

Lightning and Electro-Static Discharge Protection Disclaimer

(Only for outdoor devices)

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.

PoE Disclaimer

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.

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

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