EAP | Datasheet

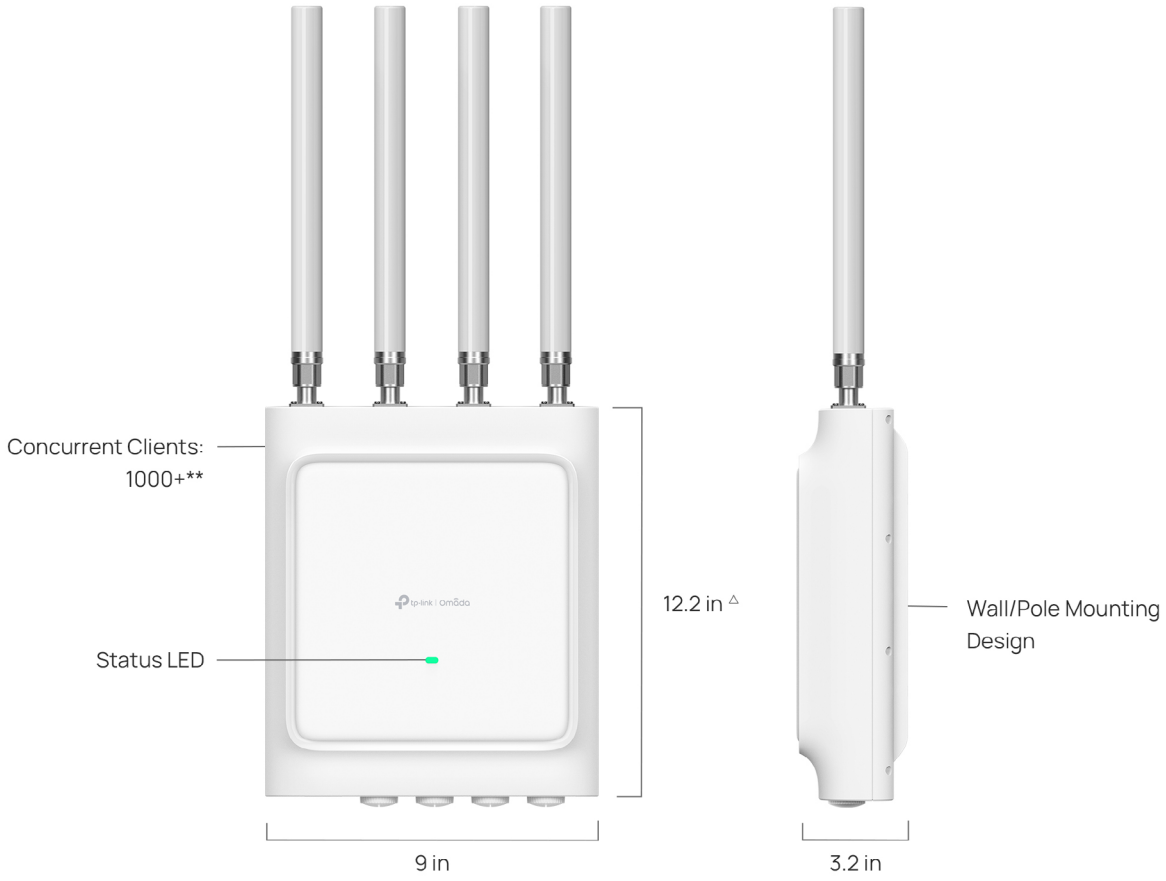
EAP668-Outdoor HD

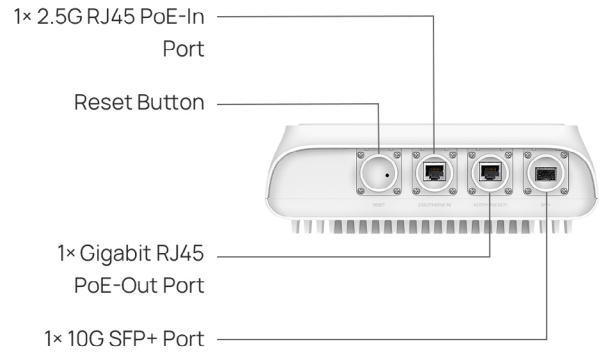
AX3600 Indoor/Outdoor Wi-Fi 6 Access Point

Highlights

- Ultra-Fast 3.6 Gbps Wi-Fi 6 Speeds: 1148 Mbps on 2.4 GHz and 2402 Mbps on 5 GHz.*
- High-Density Connectivity: Supports up to 1,024 devices.*
- Multiple Ports for Flexible Network Solutions: 1× 10G SFP+ slot, 1× 2.5G PoE-In port, and 1× Gigabit PoE-Out port.
- PoE+/PoE++ Powered and PoE+ Out: Supports 802.3at/bt PoE input and 802.3at PoE output.*
- Ideal for Outdoor Environments: IP68-rated weatherproof enclosure, 6 kV lightning protection, and a reliable operating range of -40 °C to +70 °C.
- Advanced Features: Omada Mesh, Seamless Roaming, Bluetooth, and Centralized Cloud Management.*

Product Pictures

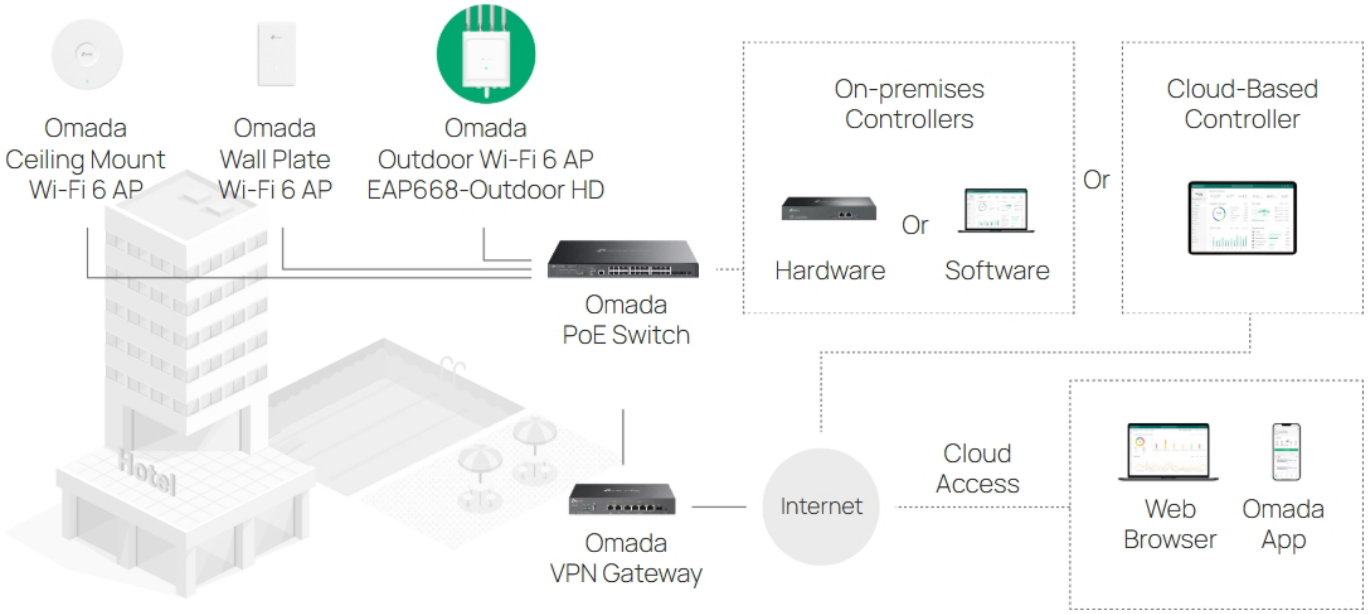




*Actual coverage is not guaranteed and will vary as a result of the performance of the equipped antennas, client limitations, and environmental factors.
**The actual capacity depends on the wireless environment and client traffic and is generally less than the maximum number of client connections.
△ Length does not include antenna, waterproof kit and mounting kit

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.



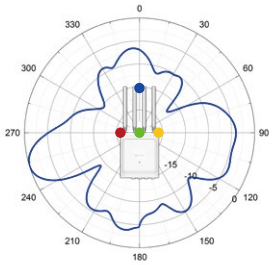
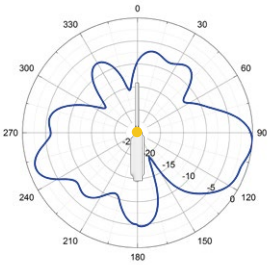
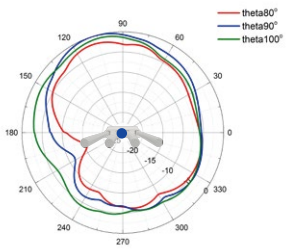
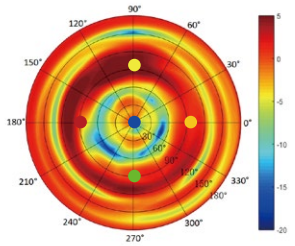
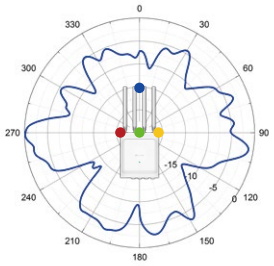
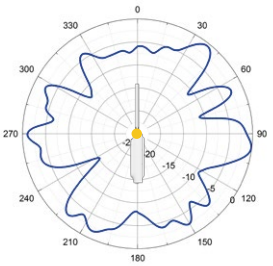
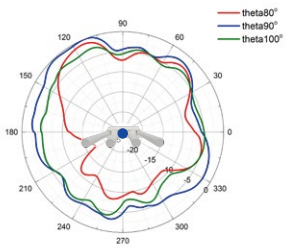
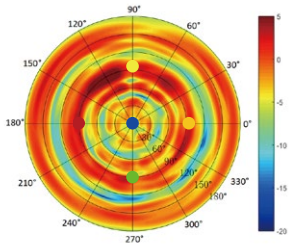
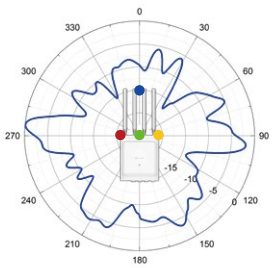
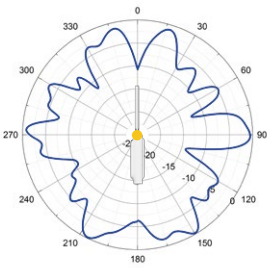
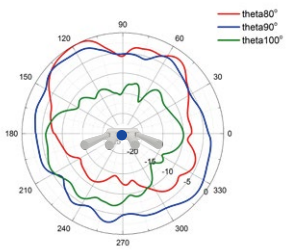
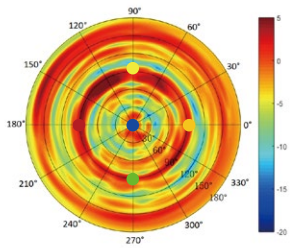
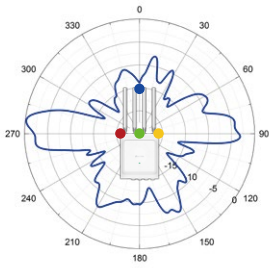
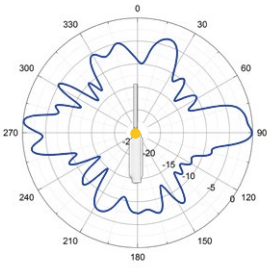
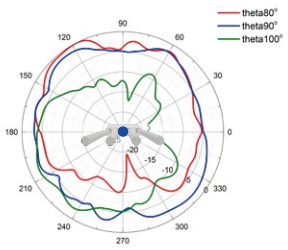
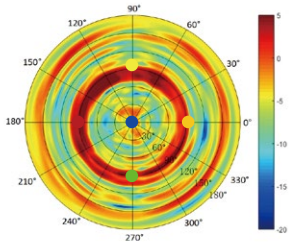
Specifications

Model		EAP668-Outdoor HD
Name		AX3600 Indoor/Outdoor Wi-Fi 6 Access Point
Main Design	LAN Interfaces	1x 2.5G EthernetPort + 1x 1G EthernetPort + 1x10G SFP+
	Wi-Fi Standards	IEEE 802.11 a/b/g/n/ac/ax
	Maximum Data Rate	1148 Mbps (2.4 GHz) +2402 Mbps (5 GHz)
	Wireless Client Capacity	1000+
	Bluetooth	Supported
	LTE Filter	Yes
	Antennas	4× External Dual-Band Omni Antennas • 2.4 GHz: 6.0 dBi • 5 GHz: 6.0 dBi
	Transmit Power	CE: < 20 dBm (2.4 GHz, EIRP); < 23dBm (5 GHz, band1&band 2, EIRP);< 30 dBm (5 GHz,band 3, EIRP); FCC: < 29 dBm (2.4 GHz); < 28 dBm (5 GHz, Band1 & Band4) ; < 23 dBm (5 GHz, Band2 & Band3)
	Reception Sensitivity	2.4GHz: 11ax HE20 MCS0:-95dBm; 11ax HE20 MCS11:-66dBm 11ax HE40 MCS0:-93dBm; 11ax HE40 MCS11:-64dBm 5GHz: 11ax HE20 MCS0:-95dBm; 11ax HE20 MCS11:-65dBm 11ax HE40 MCS0:-92dBm; 11ax HE40 MCS11:-63dBm 11ax HE80 MCS0:-89dBm; 11ax HE80 MCS11:-60dBm
Centralized Management	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

Model		EAP668-Outdoor HD
Wireless Function	Multiple SSIDs	16 (8 on each band)
	Channel	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 EU: 2G:1 - 13; 5G: 36,40,44,48,52,56,60,64,100,104,108,112,116,120,124,128,132,136,140
	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	4x4 MU-MIMO DL/UL
	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	•
	802.11ax	8 Mbps to 2402 Mbps (MCS0-MCS11, NSS = 1 to 4 HE20/40/80)
	802.11ac	6.5 Mbps to 1733 Mbps (MCS0-MCS9, NSS = 1 to 4 VHT20/40/80)
	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
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	•

<table>
<tr><th colspan="2">Model</th><th colspan="4">EAP668-Outdoor HD</th></tr>
<tr><td rowspan="6">Physical & Environment</td><td>Power Supply</td><td colspan="4">802.3at/bt PoE</td></tr>
<tr><td rowspan="4">Maximum Power Consumption</td><td>Mode</td><td>Power Consumption</td><td>System Configuration</td><td>Wi-Fi Radios</td></tr>
<tr><td>802.3bt</td><td>EU:20.2W
US: 25.4W</td><td>bt type3: af PSE out
bt type4: at PSE out</td><td>4×4</td></tr>
<tr><td>802.3at</td><td>EU:20.2W
US: 25.4W</td><td>PSE disabled</td><td>4×4</td></tr>
<tr><td colspan="4">Note: PoE out power not included.</td></tr>
<tr><td>Reset</td><td colspan="4">•</td></tr>
<tr><td>Mounting</td><td colspan="4">Wall/Pole mouting (Kits included)
Supports horizontal ±45° adjustment
Optional bracket accessory APM-110:
Supports vertical ±90°, horizontal ±45° adjustment
Optional bracket accessory APM-100:
Supports vertical ±45° , horizontal ±45° adjustment
Note: Optional bracket accessories need to be purchased separately. The actual adjustment angle may be affected by the product antenna and installation position.</td></tr>
<tr><td rowspan="6">Others</td><td>Certifications</td><td colspan="4">CE, FCC, RoHS</td></tr>
<tr><td>Dimensions (W x D x H)</td><td colspan="4">312 x 240 x 80 mm (excluding antennas, waterproofing kit, and mounting kit)</td></tr>
<tr><td>Net Weight</td><td colspan="4">2.7kg</td></tr>
<tr><td>Enclosure Material / Rack Material</td><td colspan="4">Top Cover: PC+GF10%
Bottom Shell: Aluminum alloy
Mounting rack: SGCC</td></tr>
<tr><td>Lightning Protection</td><td colspan="4">Air discharge: ±8kV
Contact discharge: ±4kV
Common mode 10/700: ±6kV</td></tr>
<tr><td>Environment</td><td colspan="4">Operating Temperature: -40 °C–70 °C (-40 °F–158 °F);
Storage Temperature: -40 °C–70 °C (-40 °F–158 °F);
Operating Humidity: 10%–90% non-condensing;
Storage Humidity: 5%–90% non-condensing;</td></tr>
</table>

Antenna Radiation Patterns

	Elevation-0°	Elevation-90°	Azimuth	Mapped 3D
2.45 GHz				
5.25 GHz				
5.5 GHz				
5.75 GHz				

Disclaimers

* Maximum wireless transmission rates are the physical rates derived from IEEE Standard 802.11 specifications. Range, coverage, and maximum quantity of connected devices are based on test results under normal usage conditions. Actual wireless data throughput, wireless coverage, and quantity of connected devices 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.

* The advertised coverage is calculated based on laboratory testing. Actual coverage is not guaranteed and will vary as a result of the performance of the equipped antennas, 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.

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

* 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.

* 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.

* 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.

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

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.