

Aruba Instant On AP25

Ultra-high-speed performance for high-density small businesses.

Perfect for gaming, boutique hotels, tech start-ups and professional offices.

The rise of the remote and hybrid workplace has placed increased pressure on business networks. Existing Wi-Fi infrastructure is struggling to support the explosion of devices and bandwidth-hungry applications — all contributing to spotty video calls and sluggish download speeds.

The Aruba Instant On AP25, a 4x4 Wi-Fi 6 access point, is designed to meet the increasing volume of connected devices. Delivering superior performance, coverage, and speed at a competitive price, the AP25 is the perfect access point for small and growing businesses.

The Wi-Fi Certified 6™ AP25 delivers faster Wi-Fi speeds, greater capacity, and reduced latency between access points and devices for a superior Wi-Fi experience. AP25 improves efficiency and reduces congestion for networks with many connected devices, making it ideal for high-density environments. And with 4x the capacity of 802.11ac access points, the AP25 provides exceptional user experience, allowing businesses to serve more customers with higher speed and less congestion.

Features of the AP25 include orthogonal frequency-division multiple access (OFDMA), multi-user MIMO and target wake time (TWT). With up to 4 spatial streams (4SS) and 160MHz channel bandwidth (HE160), the AP25 provides groundbreaking wireless capabilities for businesses looking to boost performance and future-proof their networks.

KEY FEATURES

- **Ultra-fast 802.11ax, 4x4:4**
- **2.5 Gigabit Ethernet uplink port**
- **160MHz client bandwidth support**
- **Mesh backhaul operating at 160MHz[1]**
- **Wi-Fi CERTIFIED 6™ (Wi-Fi 6)**
- **MU-MIMO performance**
- **Smart mesh Wi-Fi support**
- **Integrated Bluetooth**
- **Easy-to-use web and mobile app for setup and management**
- **Secure guest Wi-Fi with simple setup**

[1]Mesh backhaul operating at 160MHz supported in future software release

HIGHLIGHTS

Simplicity at its best

Wi-Fi that works right out of the box

Performance that keeps your users happy

Security you can count on

Protection against compromised login credentials with Two-Factor Authentication

Future-ready WPA2/WPA3/OWE authentication for secure Wi-Fi access

We've got you covered

No extra licensing fees

Industry-leading warranty and support

NEXT-GENERATION 802.11AX WI-FI FEATURES

OVERVIEW

AP25 is a Wi-Fi CERTIFIED 6™ (Wi-Fi 6) access point that brings higher capacity, efficiency, and performance to small and growing businesses with dense deployments. With a maximum aggregate data rate of 5.3 Gbps, AP25 access points deliver the speed and reliability small businesses need.

2.5G ETHERNET UPLINK PORT AND 160MHZ CLIENT BANDWIDTH SUPPORT

Availability of 2.5G uplink port and wider channel bandwidth delivers faster Wi-Fi speeds for activities like high-def video streaming and gaming.

160MHZ CLIENT BANDWIDTH SUPPORT

With 160MHz bandwidth support in 11ax, HE160 mode delivers higher performance with 160MHz supported clients. The mesh performance can be doubled with the 160MHz bandwidth support on 5GHz backhaul.

ORTHOGONAL FREQUENCY-DIVISION MULTIPLE ACCESS (OFDMA)

Allows access points (APs) to handle multiple Wi-Fi 6-capable clients on each channel simultaneously — regardless of device or traffic type. This improves efficiency by boosting overall capacity while reducing latency.

TARGET WAKE TIME (TWT)

Ideal for devices that communicate infrequently, TWT establishes a schedule for clients to communicate with an AP. This helps reduce power consumption, extending battery life.

MULTIUSER, MULTIPLE INPUT, MULTIPLE OUTPUT (MU-MIMO)

AP25 supports MIMO, allowing service to multiple clients (Wi-Fi 5 and Wi-Fi 6) at the same time.

1024-QUADRATURE AMPLITUDE MODULATION (1024-QAM)

Enables a 25% data increase over 256 QAM, improving throughput to access points and devices.

TRUSTED PLATFORM MODULE (TPM)

All Aruba Instant On access points have an installed TPM for secure storage of credentials, keys, and boot codes.

BASIC SERVICE SET COLORING (BSS COLORING)

Allows the network to assign a “color” tag to a channel and reduce the threshold for interference. Network performance is improved because APs on the same channel can be closer together and still transmit at the same time.

ARUBA ADVANCED CELLULAR COEXISTENCE (ACC)

Uses built-in filtering to automatically minimize the impact of interference from cellular networks, distributed antenna systems (DAS), and commercial small-cell or femtocell equipment.

LOW DENSITY PARITY CHECK (LDPC)

Delivers high-efficiency error correction for increased throughput.

TRANSMIT BEAMFORMING (TXBF)

Delivers increased signal reliability and range.

THE INSTANT ON DIFFERENTIATORS

THE ARUBA INSTANT ON APP

Manage everything through our official app on the device of your choice. Manage your network from anywhere, anytime — all from the palm of your hand.

BUILT-IN SECURITY GATEWAY/FIREWALL

Stop unwanted people and bots from accessing the network. Leverage advanced features that do not require external gateways — or the complexity that comes with them. Quickly and easily swap it out with another AP in a single click, in case of gateway failure. The new Cloudflare integration provides private and fast web browsing. The 802.11k standard improves roaming performance helping clients connect to nearby APs quickly.

BETTER TOGETHER

Instant On automatically detects and applies highest (critical) PoE priority to Instant On access points for uninterrupted power delivery and wireless network access. Wired and wireless voice traffic is prioritized with high QoS priority end-to-end for optimal voice performance.

TAILORED USER EXPERIENCES

Customize guest Wi-Fi experience with logos, authentications, and rules of use. Set data usage per app. Limit duration of use. Use an external portal or service like Facebook Wi-Fi. Create open guest networks for quick and easy access. With the Instant On mobile app, you can apply bandwidth limits for your clients or your network for prioritizing certain primary networks.

ENTERPRISE GRADE WI-FI AND FEATURES

Control channel and channel width to suit specific environments. Keep users happy as they move between spaces or meetings with a seamless hand-off between APs. Protect users with the robust password-based authentication that WPA3/WPA2 wireless security standard provides. Instant On supports OWE for secure, open Wi-Fi network access at cafes, retail stores and restaurants.

SITE INVENTORY AND TOPOLOGY VIEW

The site inventory view lists all the Instant On switches and access points on a single interface, and the topology view provides an intuitive structure of all Instant On devices deployed in a network — helping to quickly identify non-functioning devices and troubleshoot accordingly. Network issues can be easily diagnosed with connectivity tests like Ping and Traceroute.

TWO-FACTOR AUTHENTICATION (2FA)

As the number of security breaches continue to rise, 2FA has become an essential tool to mitigate risk against compromised login credentials. Two-Factor Authentication (2FA), provides an additional layer of authentication, prevents attackers from remotely accessing your network, and secures your customer information.

THE INSTANT ON DIFFERENTIATORS

MULTI-SITE MANAGEMENT

Manage multiple sites, multiple networks, distributed deployments, and multi-tenancy deployments with ease through our cloud-hosted web interface and mobile app. Create unique configurations, statistics, guest portals, and admin read/write for every site. Instant On allows three admin accounts per site, offering an option to lock accounts to prevent them from accidental deletion.

PPPoE AND STATIC IP

Instant On APs can act as routers and handle PPPoE configuration with VLAN support, and they can also act as a DHCP server, providing IP addresses to the wireless network. Assigning a static IP address on an access point allows users to use the same IP address regardless of where the access point is connected, making it easier to access its setup page for any configuration changes.

SMART MESH

Extend coverage to hard-to-reach spaces where Ethernet cabling may not exist. Set up a mesh network up in minutes through the app — indoors or out.

5-STAR VOICE AND VIDEO QUALITY

Keep users connected via softphones and mobile apps. Automatically detect and prioritize voice and video applications such as Skype, FaceTime, and WeChat that use SIP, SCCP and other popular protocols.

NO HIDDEN FEES

All features are included in the price of the hardware — there are no recurring subscription or licensing fees. Expert-level support and industry-leading 2-year warranty are also included, along with chat support for the life of the product.







TECHNICAL SPECIFICATION

IN THE BOX

Aruba Instant On AP25 Indoor Access Point

Aruba Instant On AP25 Quick Start Guide

Combined ceiling and wall rail mount clip

Ethernet cable

RADIOS

Dual radio for simultaneous dual-band operation

5 GHz 802.11ax 4x4 MIMO for up to 4.8 Gbps wireless data rate, with Multi User MIMO support (Wi-Fi 6)

2.4 GHz 802.11ax 2x2 MIMO for up to 574 Mbps wireless data rate (Wi-Fi 6)

MAXIMUM (AGGREGATE, CONDUCTED TOTAL) TRANSMIT POWER (LIMITED BY LOCAL REGULATORY REQUIREMENTS)

5GHz band: +24dBm (+18dBm per chain, 6dB MIMO gain)

2.4Ghz band: +21dBm (+18dBm per chain, 3dB MIMO gain)

INTERFACES

Uplink 2.5 Gigabit Ethernet port, with PoE-in support (802.3at)

DC power connector (12V) Bluetooth Low Energy (BLE) radio LED status indicators (2) Reset/LED control button Kensington security slot

PHYSICAL SPECIFICATIONS

200mm x 200mm x 45mm, excluding mount accessories

Weight: 775g

POWER

Power over Ethernet (POE): 802.3at (class 4)

Max power consumption (worst-case): 20.1W (PoE), 15.9W (DC)

DC power (12V)

Note: Power sources are sold separately unless you purchase the bundle SKU which comes with power options.

ANTENNAS

Down-tilt omni-directional antennas for 2x2 MIMO with peak antenna gain of 3.77 dBi in 2.4GHz and 4x4 MIMO with peak antenna gain of 4.55 dBi in 5GHz (of the effective, combined pattern for both antennas in each band)

MOUNTING

The access point ships with a white mount clip that can attach to both walls and ceilings

Mounts that match the design of the APs can be purchased separately

ENVIRONMENTAL & RELIABILITY

Operating temperature: 0° C to +40° C (+32° F to +104° F)

MTBF: 670khrs (76yrs) at +25° C

INDUSTRY CERTIFICATIONS

EN 60601-1-1 and EN 60601-1-2 (for deployment in medical environments)

Wi-Fi Alliance certified (WFA) 802.11ax with (Wi-Fi 6), WPA2, WPA3

MANAGEMENT OPTIONS

Instant On mobile application (Android & iOS)

Cloud Portal: Portal.ArubaInstantOn.com

WARRANTY & SUPPORT

Aruba Instant On 2-year* warranty includes 24X7 phone support for the first 90 days and chat support for the entire warranty period. Community support is available for the life of the product. Foundation Care provides extended support for APs. The SKUs are HK1Y0E (3 years) and H30GZE (5 years).

*2-year warranty applies to APs with "power-on date" on or after June 15, 2021, otherwise warranty duration is 1 year.

ORDERING INFORMATION

Aruba Instant On Indoor AP25 Access Points

Part Number	Description	Comments
R9B27A	Aruba Instant On AP25 (US) 4x4 Wi-Fi 6 Indoor Access Point	Add PoE or DC Power Source
R9B28A	Aruba Instant On AP25 (RW) 4x4 Wi-Fi 6 Indoor Access Point	Add PoE or DC Power Source
R9B29A	Aruba Instant On AP25 (JP) 4x4 Wi-Fi 6 Indoor Access Point	Add PoE or DC Power Source
R9B30A	Aruba Instant On AP25 (EG) 4x4 Wi-Fi 6 Indoor Access Point	Add PoE or DC Power Source
R9B31A	Aruba Instant On AP25 (IL) 4x4 Wi-Fi 6 Indoor Access Point	Add PoE or DC Power Source
R9B32A	Aruba Instant On AP25 with 12V/18W Power Adaptor US Bundle	
R9B33A	Aruba Instant On AP25 with 12V/18W Power Adaptor EU Bundle	
R9B34A	Aruba Instant On AP25 with 12V/18W Power Adaptor Worldwide Bundle	Add # options to choose the right power cord for the specific country
R9B35A	Aruba Instant On AP25 with 12V/18W Power Adaptor JP Bundle	
Mount Kit		
R9B36A	Aruba Instant On AP25 flush mount sleeve	Add with above AP or bundle SKUs for aesthetic design
Power Options		
R3X85A	Aruba Instant On 12V/36W Power Adaptor	Add AC power cord
R9M78A	Aruba Instant On 12V Power adapter US EU	Includes power cord with US and EU plugs
R9M79A	Aruba Instant On 12V Power adapter RW	Includes power cord with Rest-of-World plugs
R9M77A	Aruba Instant On 30W 802.3at PoE Midspan Injector	Add AC power cord This injector is for indoor installation only

ORDERING INFORMATION

Aruba Instant On Indoor AP25 Access Points

This injector is for indoor installation only	
JW113A	PC-AC-ARG Argentina 220V AC 10A 2-meter AC Power Cord
JW114A	PC-AC-AUS Australian AC Power Cord
JW115A	PC-AC-BR Brazil AC Power Cord
JW116A	PC-AC-CHN China AC Power Cord
JW117A	PC-AC-DEN Denmark 220V AC 10A 2-meter AC Power Cord
JW118A	PC-AC-EC Continental European/Schuko AC Power Cord
JW119A	PC-AC-IN India AC Power Cord
JW120A	PC-AC-IL Israel 250V AC 10A 2-meter AC Power Cord
JW121A	PC-AC-IT Italian AC Power Cord
JW122A	PC-AC-JP Japanese AC Power Cord
JW123A	PC-AC-KOR Korea AC Power Cord
JW124A	PC-AC-NA North America AC Power Cord
JW125A	PC-AC-SWI Switzerland 220V AC 10A 2-meter AC Power Cord
JW126A	PC-AC-TW Taiwan AC Power Cord
JW127A	PC-AC-UK UK AC Power Cord
JW128A	PC-AC-ZA South Africa 250V AC 10A 2-meter AC Power Cord

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tp-link | Omada

Omada
Business Cloud SDN Solution

Omada EAP - Business Wi-Fi Series



Omada SDN Controller



EAP650

EAP Product List

Ceiling Mount 802.11ax Wi-Fi 6 AP	
Picture	
Model	EAP650
Product	AX3000 Ceiling Mount Dual-Band Wi-Fi 6 Access Point
Speed	2.4 GHz: 574 Mbps 5 GHz: 2402 Mbps
Ethernet Port	1x Gigabit Ethernet Port
Power Supply	V2: 48V Passive PoE or 802.3at PoE or 12V/1.2A DC V1: EU: 48V Passive PoE or 802.3at PoE or 12V/1A DC US: 48V Passive PoE or 802.3at PoE or 12V/1.5A DC
Internal Antennas	V2: 2.4 GHz: 2x 3 dBi 5 GHz: 3× 5 dBi (one auxiliary antenna included) V1: 2.4 GHz: 2x 4 dBi 5 GHz: 2x 5 dBi

Specifications

Ceiling Mount 802.11ax Wi-Fi 6 AP		
Model		EAP650
Name		AX3000 Ceiling Mount Dual-Band Wi-Fi 6 Access Point
Main Design	LAN Interfaces	1x 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	250+
	Antennas	V2: 2.4 GHz: 2x 3 dBi 5 GHz: 3× 5 dBi (one auxiliary antenna included) V1: 2.4 GHz: 2x 4 dBi 5 GHz: 2x 5 dBi
	Transmit Power	V2: CE: < 20 dBm(2.4 GHz, EIRP); <23 dBm (5 GHz,band 1&band 2,EIRP); < 27 dBm(5 GHz, band 3,EIRP); FCC: < 24 dBm(2.4 GHz); < 25dBm (5 GHz) V1: CE: < 20 dBm (2.4 GHz, EIRP); < 23 dBm (5 GHz, band 1&band 2, EIRP); < 30 dBm (5 GHz, band 3, EIRP); FCC: < 25 dBm (2.4 GHz); < 25 dBm (5 GHz)
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	•

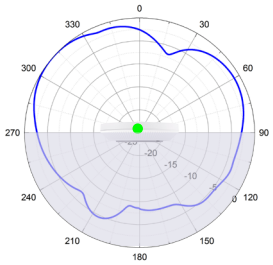
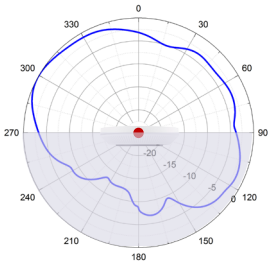
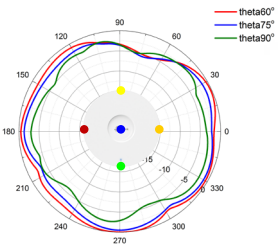
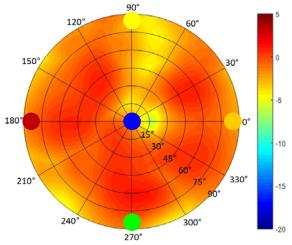
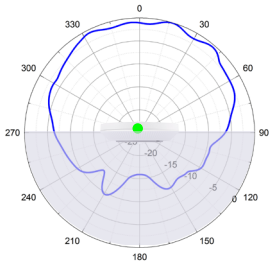
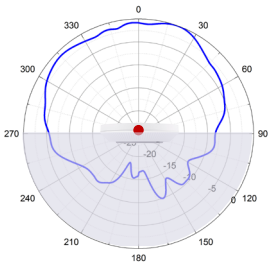
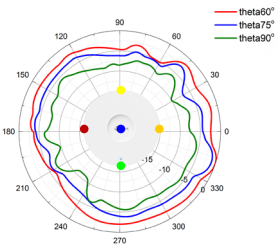
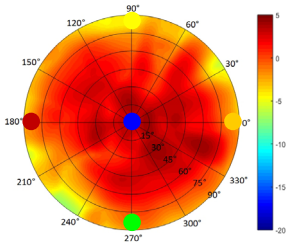
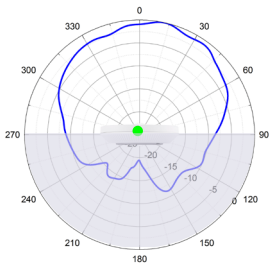
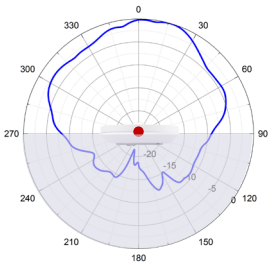
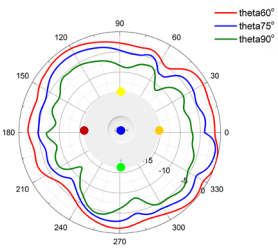
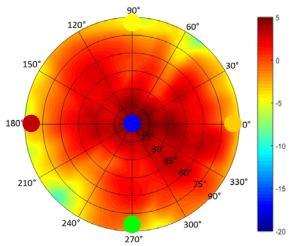
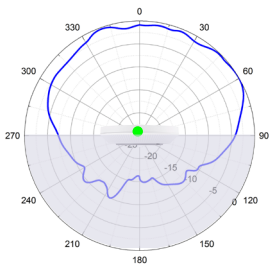
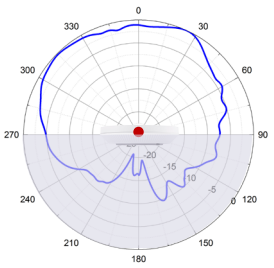
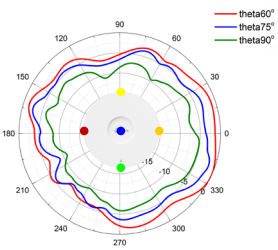
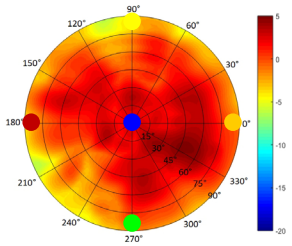
Ceiling Mount 802.11ax Wi-Fi 6 AP		
Model		EAP650
Wireless Function	Multiple SSIDs	16 (8 on each band)
	Enable/Disable Wireless Radio	•
	Enable/Disable SSID Broadcast	•
	Guest Network	•
	Automatic Channel Assignment	•
	Transmit Power Control	Adjust transmit Power on dBm
	QoS (WMM)	•
	Seamless Roaming	•
	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-MCS11, 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
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	•

Ceiling Mount 802.11ax Wi-Fi 6 AP		
Model		EAP650
Physical & Environment	Power Supply	V2: 48V Passive PoE or 802.3at PoE or 12V/1.2A DC V1: EU: 48V Passive PoE or 802.3at PoE or 12V/1A DC US: 48V Passive PoE or 802.3at PoE or 12V/1.5A DC
	Maximum Power Consumption	V2: EU: 13.3 W (For PoE); 11.8 W (for DC) US: 14.7 W (For PoE); 12.6 W (for DC) V1: EU: 13.5 W (For PoE); 12.0 W (for DC) US: 14.7 W (For PoE); 13.25 W (for DC)
	Reset	•
	Mounting	Ceiling / Wall mouting (Kits included) / Junction Box mouting
	Certifications	CE, FCC, RoHS, IC
	Dimensions (W x D x H)	160 x 160 x 33.6 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

Ceiling Mount AP

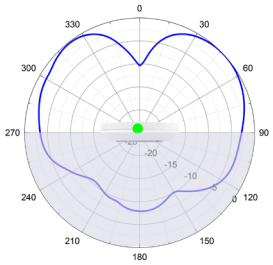
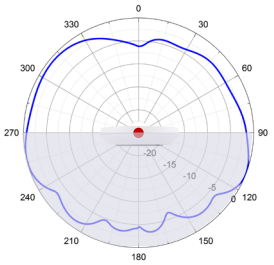
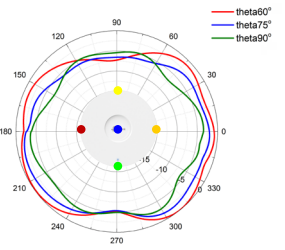
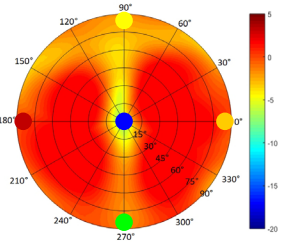
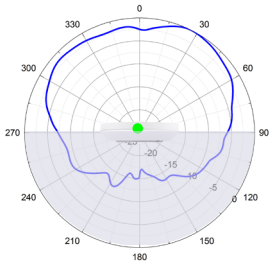
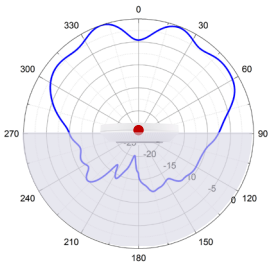
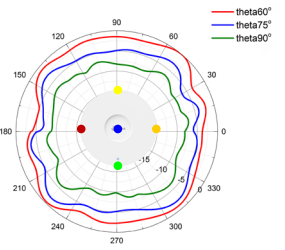
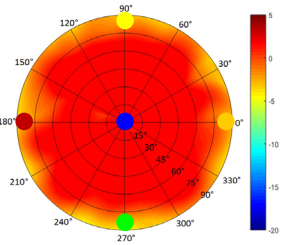
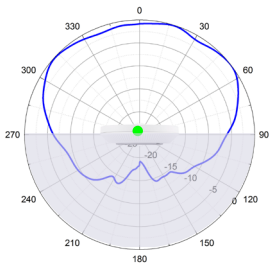
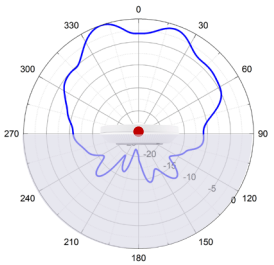
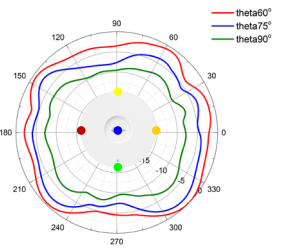
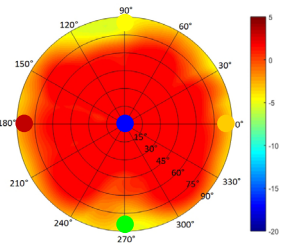
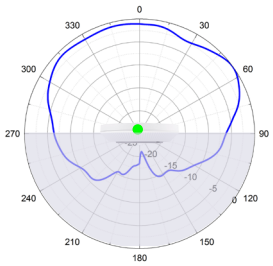
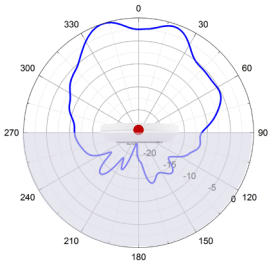
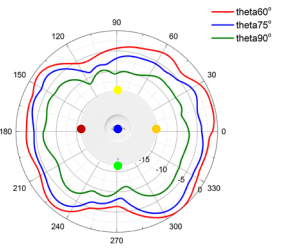
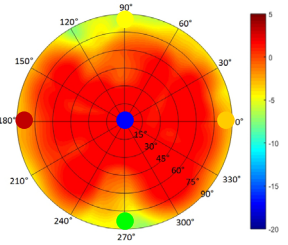
EAP650 V2

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

Antenna Radiation Patterns

Ceiling Mount AP

EAP650 V1

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

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 coverageare 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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Omada Business Cloud SDN Solution

Omada EAP - Business Wi-Fi Series



Omada SDN Controller



EAP660 HD **V2**

Omada Solution



Hospitality
High Quality and Full Coverage Wi-Fi

Education
High-Density Wi-Fi

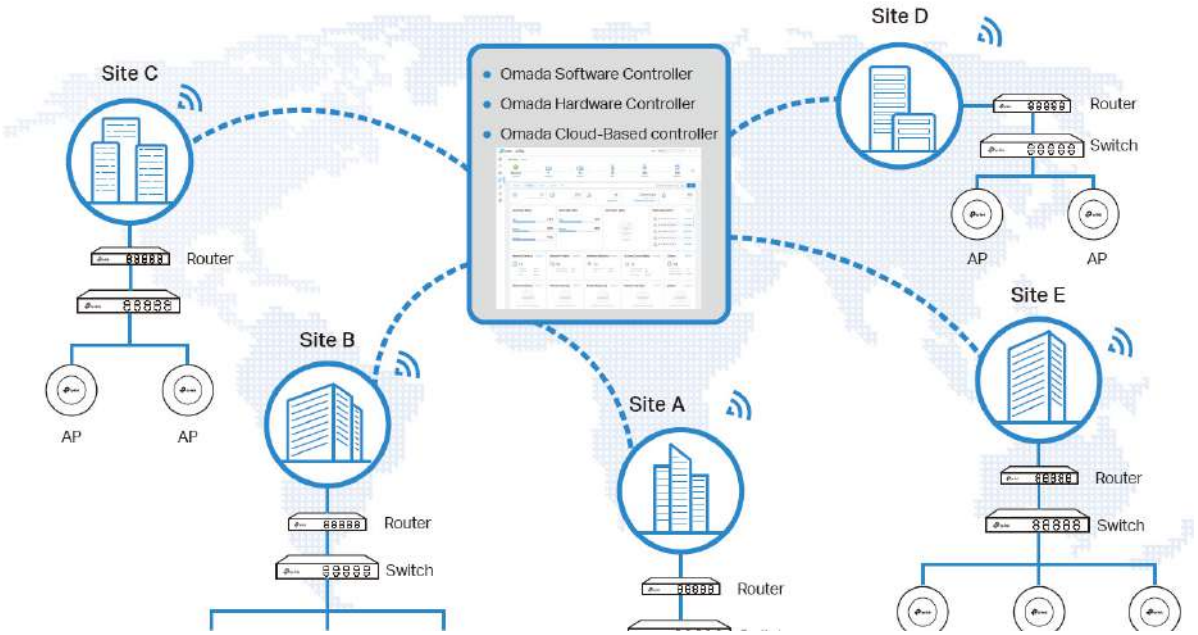
Retail
Social Marketing for O2O

Office
Wireless and Wired Connections

Catering
Full Wi-Fi Coverage in High-Density Environment

Software Defined Networking (SDN) with Cloud Access

Omada 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. Seamless wireless and wired connections are provided, ideal for use in hospitality, education, retail, offices, and more.



Higher Efficiency

- Centralized Cloud Management
- Zero-Touch Provisioning
- AI-Driven Technology
- Auto Channel Selection and Power Adjustment
- Multi-Tenant Privilege Assignment
- Easy and Intelligent Monitoring

Higher Security

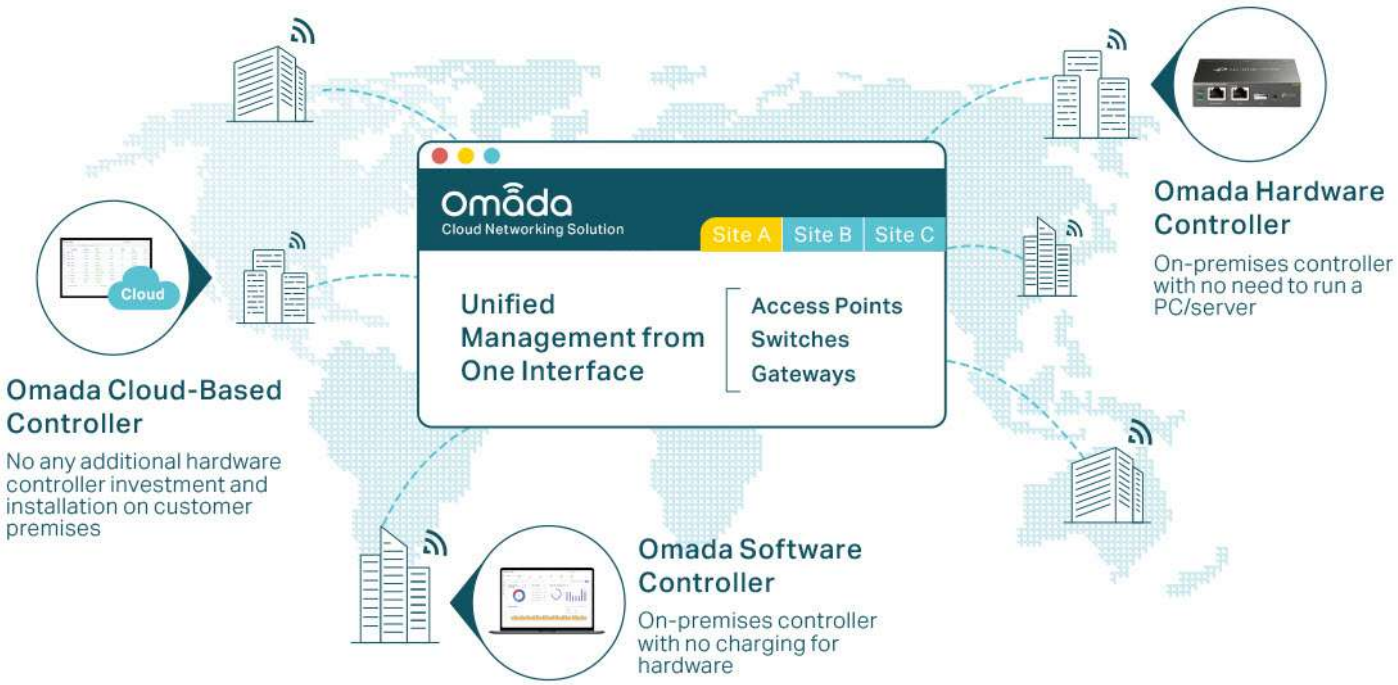
- Separate Management and User Data
- Abundant Security Functions

Higher Reliability

- 99.99% SLA Availability
- Reliable Connections with High-Density Clients

Hassle-Free Centralized Cloud Management

100% centralized cloud management of the whole network from different sites——all controlled from a single interface anywhere, anytime.



- No additional training needed
- Unlimited scalability
- Batch management
- Devices still work even when not connected to the Cloud

Zero-Touch Provisioning for Efficient Deployment*

Omada zero-touch provisioning allows remotely deployment and configuration of multi-site networks, so there's no need to send out an engineer for on-site configuration. The Omada Cloud ensures efficient deployment with lower costs.



* Zero-Touch Provisioning is supported when using Omada-Cloud Based Controller.

AI-Driven Technology for Stronger Performance and Easy Network Maintenance

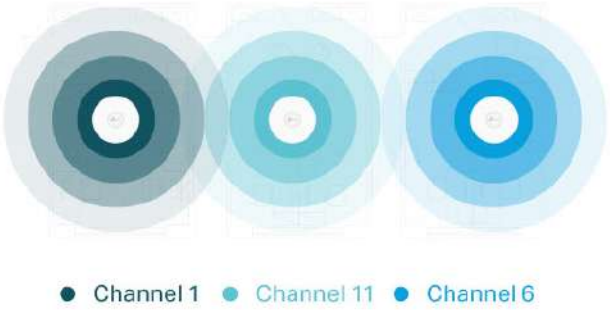
Intelligent Network Analysis, Warning, and Optimization*

- Analyzes potential network problems and sends optimization suggestions for higher network efficiency
- Locates network faults, warns and notify users, and generates solutions to reduce network risk



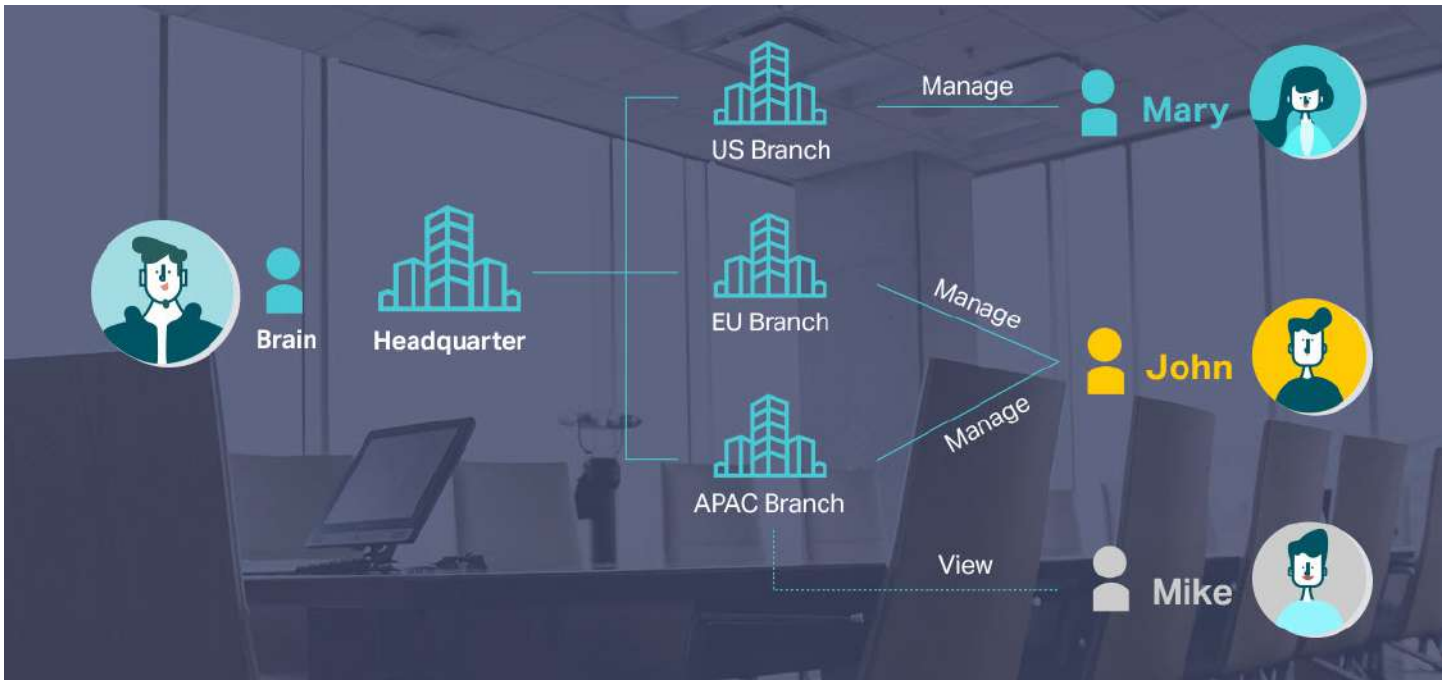
Auto Channel Selection and Power Adjustment

Provides powerful wireless performance while greatly reducing Wi-Fi interference by automatically adjusting the channel settings and transmission power levels of neighboring APs in the same network.



Assign Different Management Roles

Multi-user privilege assignment is available to increase management efficiency and security. Multi-person management, multi-level permissions, and the ability to add admins as needed, enable flexible network operation and maintenance.

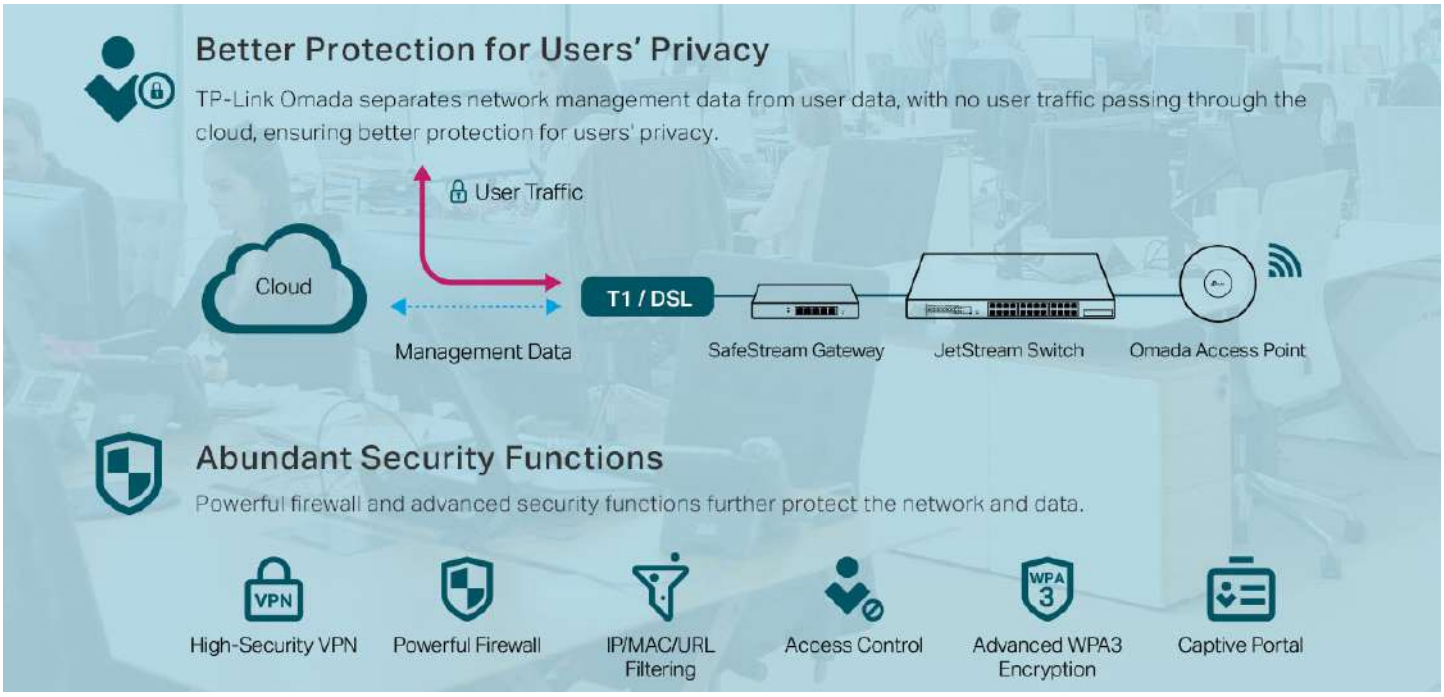


Easy and Intelligent Network Monitoring

The easy-to-use dashboard makes it easy to see your real-time network status; check network usage and traffic distribution; receive network condition logs, abnormal event warnings, and notifications; or even track key data for better business results. Network topology helps IP admins quickly see and troubleshoot connection at a glance.

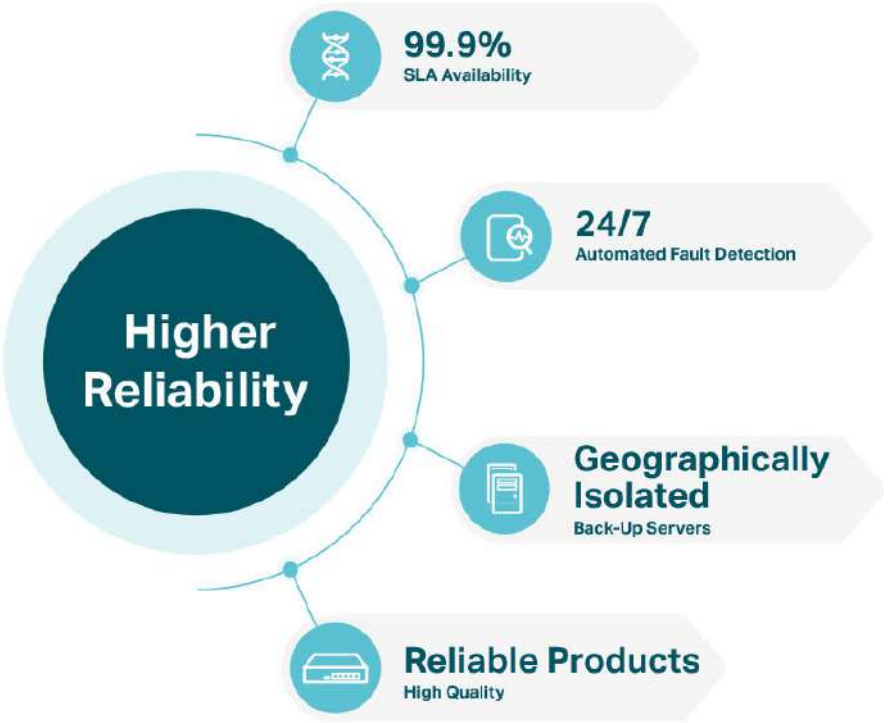


Comprehensive Protection for the Whole Network



Multiple Factors Guarantee Higher Reliability

Higher reliability of cloud service is guaranteed with 99.9% SLA availability, 24/7 automated fault detection, geographically isolated backup servers, and reliable product quality. Your network functions even if management traffic is interrupted.



Reliable Connections Even with High-Density Clients

Equipped with enterprise chipsets, dedicated antennas, advanced RF functions, auto channel selection, and power adjustment, Omada APs have high concurrency capacities for remarkable performance in high-density environments.



EAP Product Features

Easy-Mount Design

The Ceiling Mount EAP's elegant appearance and easy-mount design promote fast installation on any wall or ceiling surface, and allow it to blend in seamlessly with most interior decorating styles. The slimline, inconspicuous Wall Plate EAP can be easily installed into any standard EU/US wall junction box or 86 mm wall junction box.

PoE Power Supply*

With IEEE 802.3af/at/bt PoE or Passive PoE, you can use Ethernet cables to transfer both electrical power and network data, making deployment more flexible and removing the need to install additional power cabling.

Business-Class Hardware Design

Enterprise-class chipsets offer outstanding performance and support longer running time, higher client capacity and greater range. Dedicated high-power amplifiers, specialized antennas and professionally designed RF shields ensure excellent wireless performance.

Seamless Roaming*

802.11k and 802.11v seamless roaming provide seamless switching to the access point with optimal signal when moving between APs.

Mesh*

Omada Mesh technology enables wireless connectivity between access points for extended range, making wireless deployments more flexible and convenient.

Increased Efficiency with OFDMA*

The Wi-Fi 6 and above standards use OFDMA for more efficient channel use and reduced latency. Imagine your WiFi connection as a series of delivery trucks delivering data packets to your devices. With 802.11ac Wi-Fi, each delivery truck could only deliver one parcel to one device at a time. But with OFDMA, each truck can deliver multiple parcels to multiple devices simultaneously. This vast improvement in efficiency works for both uploads and downloads.

Advanced RF Management

MU-MIMO, Airtime Fairness, Beamforming, and Band Steering Technologies guarantee optimal RF performance for business-level applications.

Easy Centralized Management

Configure and monitor hundreds of Omada EAPs with ease using the Omada controller.

* PoE support varies by model. For detailed information, refer to the specifications.
* Only certain devices support Seamless Roaming. For detailed information, refer to the specifications.
* Only certain devices support Mesh. For detailed information, refer to the specifications.
* Only 802.11ax and 802.11be devices support OFDMA.

EAP Product List

Ceiling Mount 802.11ax Wi-Fi 6 AP	
Picture	
Model	EAP660 HD V2
Product	AX3600 Ceiling Mount Dual-Band Wi-Fi 6 Access Point
Speed	2.4 GHz: 1148 Mbps 5 GHz: 2402 Mbps
Ethernet Port	1x 2.5Gbps Ethernet Port
Power Supply	802.3at PoE or 12V/2A DC
Internal Antennas	2.4 GHz: 4x 4 dBi 5 GHz: 4x 5 dBi
Bluetooth	V5.2

Specifications

Ceiling Mount 802.11ax Wi-Fi 6 AP		
Model		EAP660 HD
Name		AX3600 Ceiling Mount Dual-Band Wi-Fi 6 Access Point
Main Design	LAN Interfaces	1x 2.5Gbps Ethernet Port
	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+
	Antennas	2.4 GHz: 4x 4 dBi 5 GHz: 4x 5 dBi
	Transmit Power	CE: < 20 dBm (2.4GHz, EIRP); < 23dBm (5 GHz, band1&band 2, EIRP);< 30 dBm (5 GHz,band 3, EIRP); FCC: < 26 dBm (2.4 GHz); < 26 dBm (5 GHz)
	Reception Sensitivity	2.4GHz: 11AX 20MHz MCS0: -95 11AX 20MHz MCS11: -66 11AX 40MHz MCS0: -94 11AX 40MHz MCS11: -63 5GHz: 11AX 20MHz MCS0: -94 11AX 20MHz MCS11: -64.5 11AX 40MHz MCS0: -90.5 11AX 40MHz MCS11: -63 11AX 80MHz MCS0: -88.5 11AX 80MHz MCS11: -60.5
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	•

Ceiling Mount 802.11ax Wi-Fi 6 AP

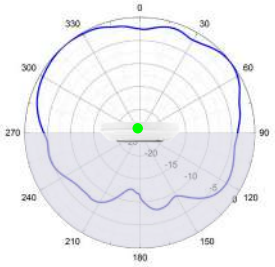
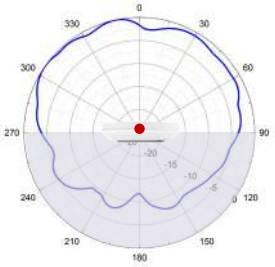
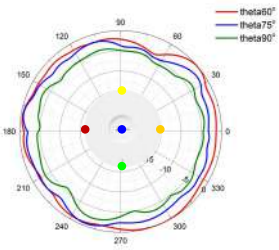
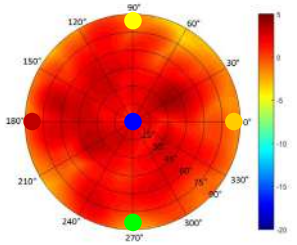
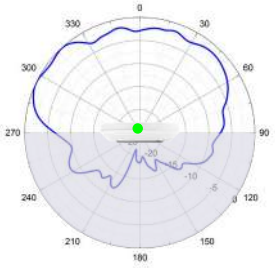
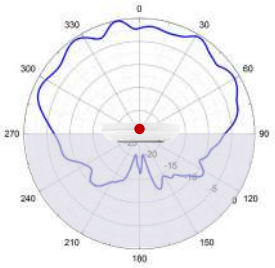
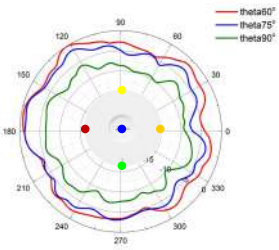
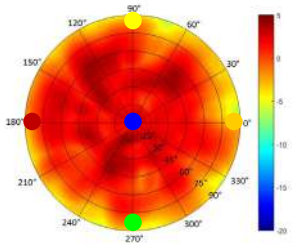
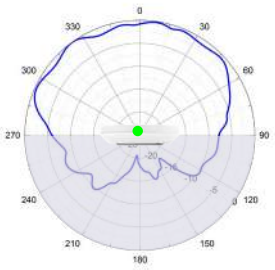
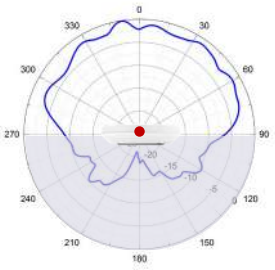
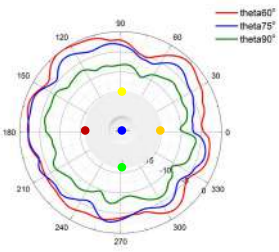
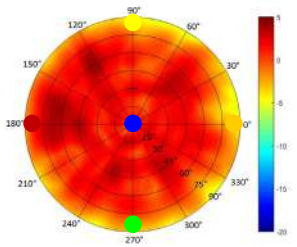
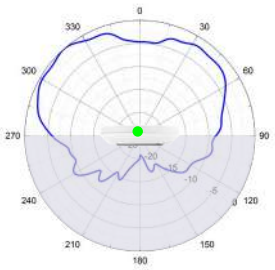
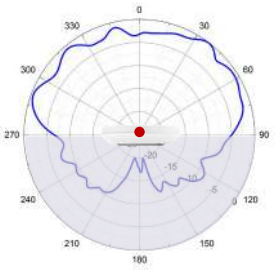
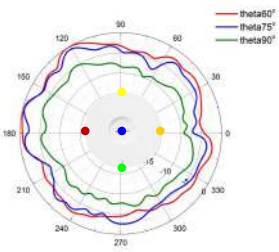
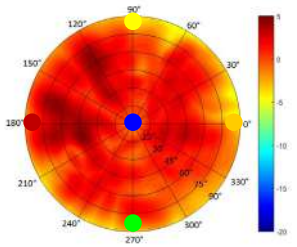
Model		EAP660 HD
Wireless Function	Multiple SSIDs	16 (8 on each band)
	Channel	US: 2G:1 - 11; 5G: 36,40,44,48,149,153,157,161,165 EU: 2G:1 - 13; 5G: 36,40,44,48,52,56,60,64,100,104,108,112,116,120,124,128,132,136,140
	Enable/Disable Wireless Radio	•
	Enable/Disable SSID Broadcast	•
	Guest Network	•
	Automatic Channel Assignment	•
	Transmit Power Control	Adjust transmit Power on dBm
	QoS (WMM)	•
	Seamless Roaming	•
	Mesh	•
	Beamforming	•
	MU-MIMO	2G: 4x4 DL MU-MIMO 5G: 4x4 DL 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 4 HE20/40/80)
	802.11ac	6.5 Mbps to 2166.7 Mbps (MCS0-MCS11, NSS = 1 to 4 VHT20/40/80)
	802.11n	6.5 Mbps to 600 Mbps(MSC0-MCS31, 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	•

Ceiling Mount 802.11ax Wi-Fi 6 AP		
Model		EAP660 HD
Physical & Environment	Power Supply	802.3at PoE or 12V/2A DC
	Maximum Power Consumption	V2: EU: 22.3W (for PoE); 20.3W (for DC) US: 25.5W (for PoE); 22.5W (for DC) V1: EU: 18.5 W (For PoE); 15 W (for DC) US: 22.5 W (For PoE); 18 W (for DC)
	Reset	•
	Mounting	Ceiling / Wall mouting (Kits included)
	Certifications	CE, FCC, RoHS, IC
	Dimensions (W x D x H)	V2: 220*220*32.5 mm V1: 243 x 243 x 64 mm
	Net Weight	V2: 738g V1: 880g
	Enclosure Material / Rack Material	Top cover: PC Bottom shell: aluminum alloy Mounting rack: stainless steel
	Lightning Protection	Air discharge: ±8kV Contact discharge: ±4kV Common mode 10/700: ±4kV
	Environment	Operating Temperature: 0 °C–60 °C (32 °F–140 °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

Ceiling Mount AP

EAP660 HD V2

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

Antenna Radiation Patterns

Ceiling Mount AP

EAP660 HD V1

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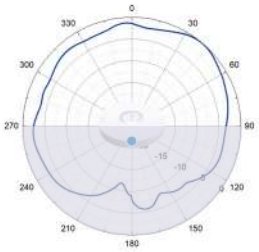
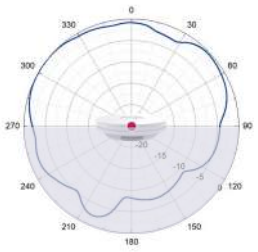
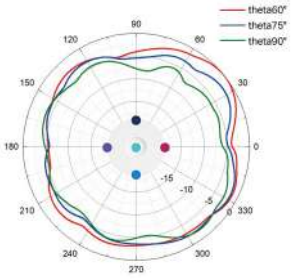
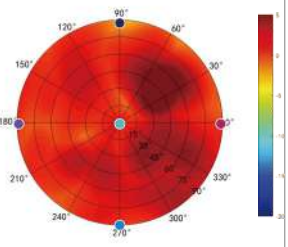
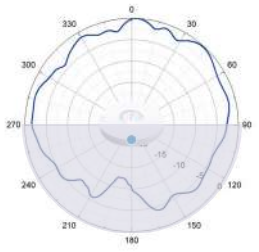
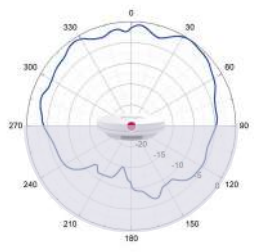
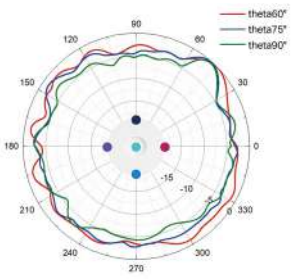
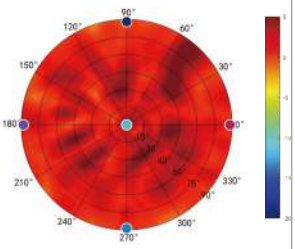
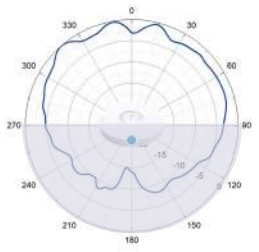
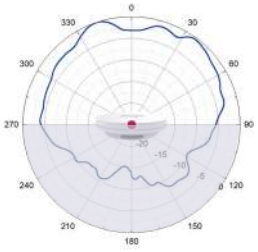
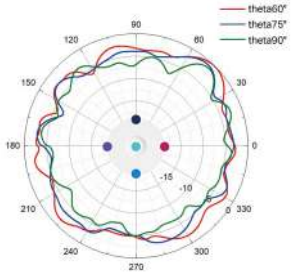
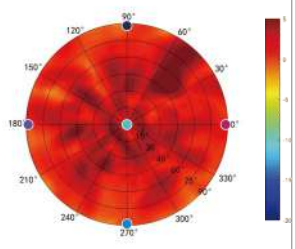
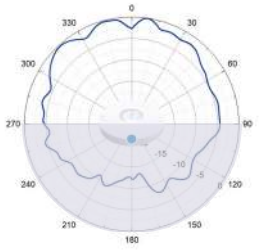
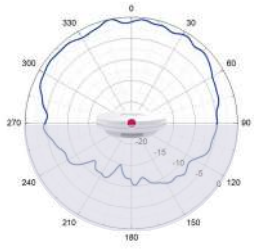
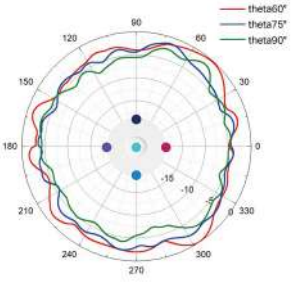
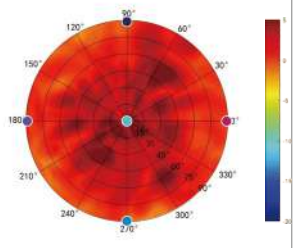
2.45 GHz				
5.25 GHz				
5.5 GHz				
5.75 GHz				

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 coverageare 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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GRANDSTREAM
CONNECTING THE WORLD



Wi Fi 6 CERTIFIED

802.11ax 4x4:4 Wi-Fi 6 Access Point

GWN7664

The GWN7664 is a powerful, enterprise-grade 802.11ax Wi-Fi 6 access point, ideal for small-to-medium sized businesses, multiple floor buildings, residential settings and commercial locations. It offers dual-band 4x4:4 MUMIMO with DL/UL OFDMA technology and a sophisticated internal antenna design for stronger anti-interference, more stable connection, maximum network throughput and expanded Wi-Fi coverage range. The GWN7664 is supported by GWN. Cloud and GWN Manager, Grandstream's cloud and on-premise Wi-Fi management platform that and makes managing your network or several networks across multiple locations easier than ever before. It also uses a controller-less network management architecture in which the controller is embedded within the product's web user interface for easy administration of locally deployed Wi-Fi Aps. The GWN7664 is the ideal Wi-Fi AP for voice-over-Wi-Fi deployments and offers a seamless connection with Grandstream's Wi-Fi capable IP phones. With support for advanced QoS, low-latency real-time applications, mesh networks, captive portals, 750+ concurrent clients and dual Gigabit network ports with PoE/PoE+, the GWN7664 is an ideal Wi-Fi access point for business-grade wireless network deployments with medium-to-high user density.

Gigabit

3.55Gbps aggregate wireless throughput, 3.5Gbps aggregate wired throughout

4x4 MIMO

Dual-band 4x4:4 MU-MIMO with DL/UL OFDMA technology

175 meters

Up to 175-meter coverage range

Support 750+ concurrent Wi-Fi client devices

QoS

Advanced QoS to ensure real-time performance of low-latency applications

Anti-hacking secure boot and critical data/control lockdown via digital signatures, unique security certificate/random default password per device

PoE

Self power adaptation upon auto detection of PoE or PoE+

Embedded controller manages up to 50 local GWN APs; GWN.Cloud offers unlimited AP management, & GWN Manager offers on-premise software AP management

Wi-Fi Standards	IEEE 802.11 a/b/g/n/ac/ax
Antennas	8 individual internal antennas, 4 per band 2.4GHz, gain 3dBi 5 GHz, gain 4dBi
Wi-Fi Data Rates	**5G:** IEEE 802.11ax: 8 Mbps to 2402 Mbps IEEE 802.11ac: 6.5 Mbps to 1733 Mbps IEEE 802.11n: 6.5Mbps to 600Mbps IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps **2.4G:** IEEE 802.11ax: 8 Mbps to 1147 Mbps IEEE 802.11n: 6.5Mbps to 600Mbps IEEE 802.11b: 1, 2, 5.5, 11 Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps **Actual throughput may vary depending on many factors including environmental conditions, distance between devices, radio interference in the operating environment and mix of devices in the network*
Frequency Bands	2.4GHz Radio: 2412 - 2484 MHz 5GHz Radio: 5180 - 5825 MHz **Not all frequency bands can be used in all regions*
Channel Bandwidth	2.4G: 20 and 40 MHz (x4) 5G: 20, 40 and 80 MHz (x4)
Wi-Fi and System Security	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise (TKIP/AES); WPA3, anti-hacking secure boot and critical data/ control lockdown via digital signatures, unique security certificate and random default password per device
MIMO	4×4:4 2.4GHz 4×4:4 5GHz
Coverage Range	Up to 175 meters **coverage range can vary based on environment*
Maximum TX Power	5G: 25dBm 2.4G: 26dBm **Maximum power varies by country, frequency band and MCS rate*
Receiver Sensitivity	**2.4G** 802.11b: -99dBm@1Mbps, -91dBm@11Mbps; 802.11g: -94dBm @6Mbps, -78dBm@54Mbps; 802.11n 20MHz: -75dBm @MCS7; 802.11n 40MHz:-71dBm @MCS7; 802.11ax 20MHz: -64dBm @ MCS11; 802.11ax 40MHz: -63dBm @MCS11 **5G** 802.11a: -95dBm @6Mbps, -77dBm @54Mbps; 802.11n 20MHz: -74dBm @MCS7; 802.11n 40MHz:-71dBm @MCS7 802.11ac 20MHz: -70dBm@MCS8; 802.11ac: HT40:- 66dBm @MCS9; 802.11ac 80MHz: -62dBm @MCS9; 802.11ax 20MHz: -64dBm @ MCS11; 802.11ax 40MHz: -62dBm @MCS11;802.11ax 80MHz: -59dBm @MCS11
SSIDs	32 SSIDs total, 16 per radio (2.4GHz & 5GHz)
Concurrent Clients	750+
Network Interfaces	1x 1G Port and 1x 2.5G Port, support 3.5Gbps aggregate wire throughput
Auxiliary Ports	1x Reset Pinhole, 1x Kensington lock
Mounting	Indoor wall mount or ceiling mount, kits included
LEDs	1 tri-color LEDs for device tracking and status indication
Network Protocols	IPv4, IPv6, 802.1Q, 802.1p, 802.1x, 802.11e/WMM
QoS	802.11e/WMM, VLAN, TOS
Network Management	Embedded controller can manage up to 50 local GWN APs GWN.Cloud offers a free cloud management platform for unlimited GWN APs GWN Manager offers premise-based software controller for up to 3,000 GWN APs
Power and Green Energy Efficiency	PoE 802.3af/ 802.3at; Maximum Power Consumption: 17W
Environmental	Operation: 0°Cto 50°C Storage: -10°C to 60°C Humidity: 10% to 95% Non-condensing
Physical	Unit Dimension: 205.3mmx205.3mmx45.9mm; Unit Weight: 0.714Kg Entire Package Dimension: 258mmx247mmx86mm; Entire Package Weight: 1.06Kg
Package Content	GWN7664 802.11ax Wireless AP, Mounting Kits, Quick Start Guide
Compliance	FCC, CE, RCM, IC

UniFi Network

Datasheet
U6-Pro

Access Point U6 Pro



UI.COM

Mechanical

Dimensions	Ø197 x 35 mm (Ø7.8 x 1.4")
Weight	Without mount: 460 g (1 lb) With mount: 600 g (1.3 lb)
Enclosure material	Polycarbonate
Mount material	Stainless steel (SUS304)
Weatherproofing	IP54

Hardware

Networking interface	(1) GbE RJ45 port
Management interface	Ethernet Bluetooth
Power method	PoE
Power supply	UniFi PoE switch 48V, 0.5A PoE adapter (optional)
Supported voltage range	44—57V DC
Max. power consumption	13W
Max. TX power	2.4 GHz: 22 dBm 5 GHz: 26 dBm
MIMO	2.4 GHz: 2 x 2 (UL MU-MIMO) 5 GHz: 4 x 4 (DL/UL MU-MIMO)
Throughput rate	2.4 GHz: 573.5 Mbps 5 GHz: 4.8 Gbps
Antenna gain	2.4 GHz: 4 dBi 5 GHz: 6 dBi
LEDs	White/blue
Button	Factory reset
Mounting	Wall/ceiling (included)
Operating temperature	-30 to 60° C (-22 to 140° F)
Operating humidity	5 to 95% noncondensing
Certifications	CE, FCC, IC, MIC

Software

WiFi standards	802.11a/b/g WiFi 4/WiFi 5/WiFi 6
Wireless security	WPA-PSK, WPA-Enterprise (WPA/WPA2/WPA3)
BSSID	8 per radio
VLAN	802.1Q
Advanced QoS	Per-user rate limiting
Guest traffic isolation	Supported

Concurrent clients	300+
Zero wait DFS	Yes

Supported Data Rates

802.11a	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11b	1, 2, 5.5, 11 Mbps
802.11g	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11n (WiFi 4)	6.5 Mbps to 600 Mbps (MCS0 - MCS31, HT 20/40)
802.11ac (WiFi 5)	6.5 Mbps to 3.4 Gbps (MCS0 - MCS9 NSS1/2/3/4, VHT 20/40/80/160)
802.11ax (WiFi 6)	7.3 Mbps to 4.8 Gbps (MCS0 - MCS11 NSS1/2/3/4, HE 20/40/80/160)

Specifications are subject to change. Ubiquiti products are sold with a limited warranty described at: www.ui.com/support/warranty

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