Omada

Business Cloud SDN Solution

Omada EAP - Business Wi-Fi Series

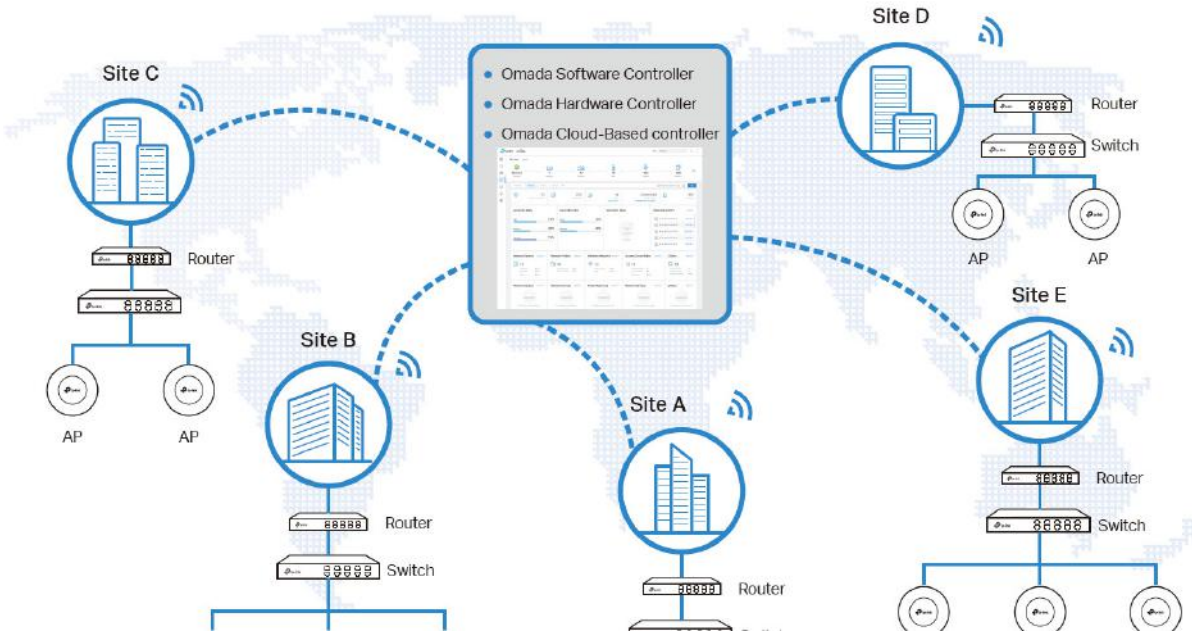Omada SDN Controller

EAP673

Omada Solution

Hospitality	Education	Retail	Office	Catering
High Quality and Full Coverage Wi-Fi	High-Density Wi-Fi	Social Marketing for O2O	Wireless and Wired Connections	Full Wi-Fi Coverage in High-Density Environment

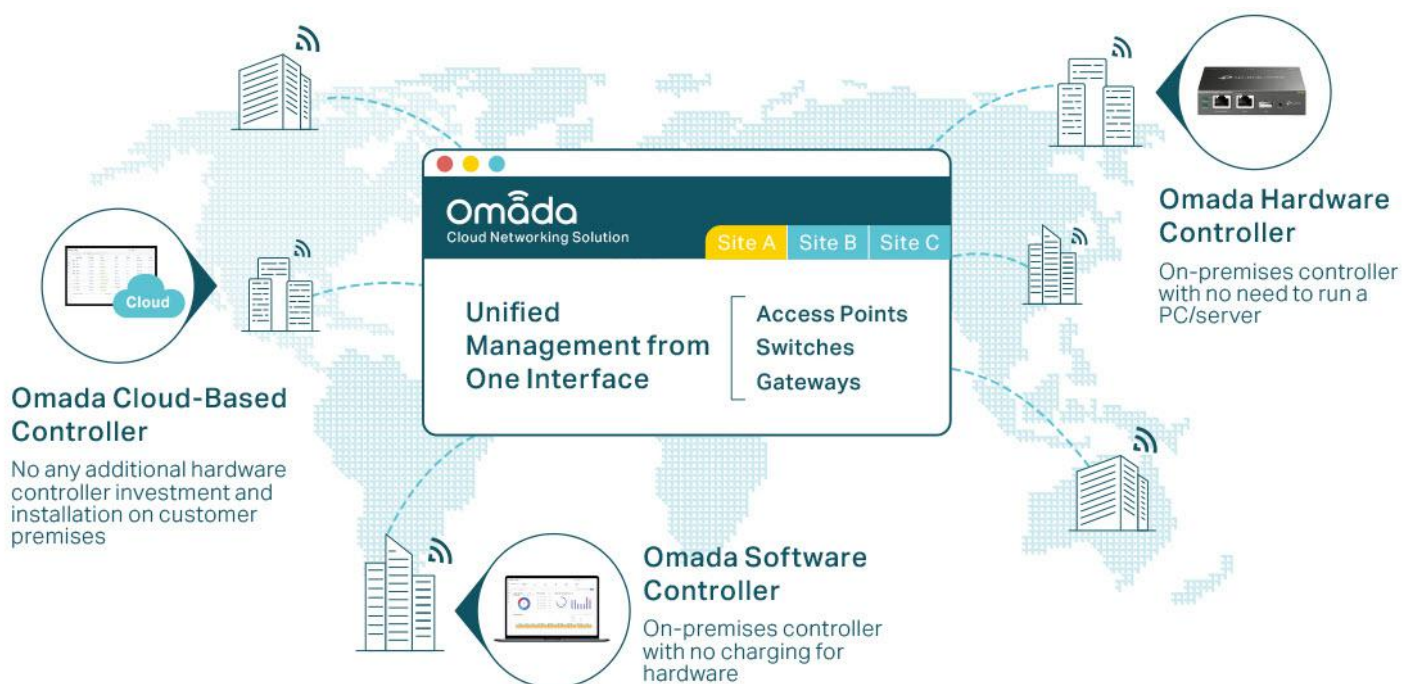## Software Defined Networking (SDN) with Cloud Access

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.

Site D
- Omada Software Controller
- Omada Hardware Controller
- Omada Cloud-Based controller

Site C
Router
AP   AP

Site B
Router
Switch

Site A
Router

Site D
Router
Switch
AP   AP

Site E
Router
Switch

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

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Hassle-Free Centralized Cloud Management
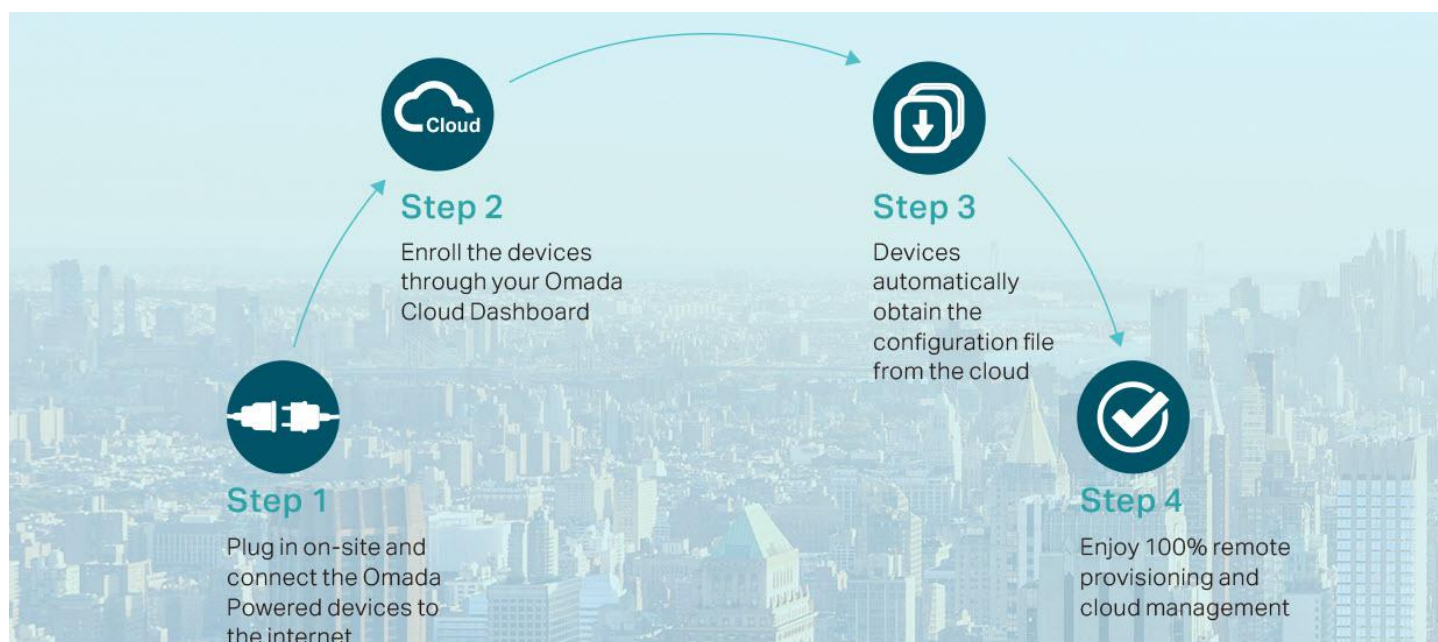
100% centralized cloud management of the whole network from different sites——all controlled from a single interface anywhere, anytime.

Omada Cloud-Based Controller

No any additional hardware controller investment and installation on customer premises

Omada
Cloud Networking Solution

Site A | Site B | Site C

Unified Management from One Interface

Access Points
Switches
Gateways

Omada Hardware Controller

On-premises controller with no need to run a PC/server

Omada Software Controller

On-premises controller with no charging for hardware

✓ 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.

Cloud

Step 2

Enroll the devices through your Omada Cloud Dashboard

Step 3

Devices automatically obtain the configuration file from the cloud

Step 1

Plug in on-site and connect the Omada Powered devices to the internet

Step 4

Enjoy 100% remote provisioning and cloud management

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

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# 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

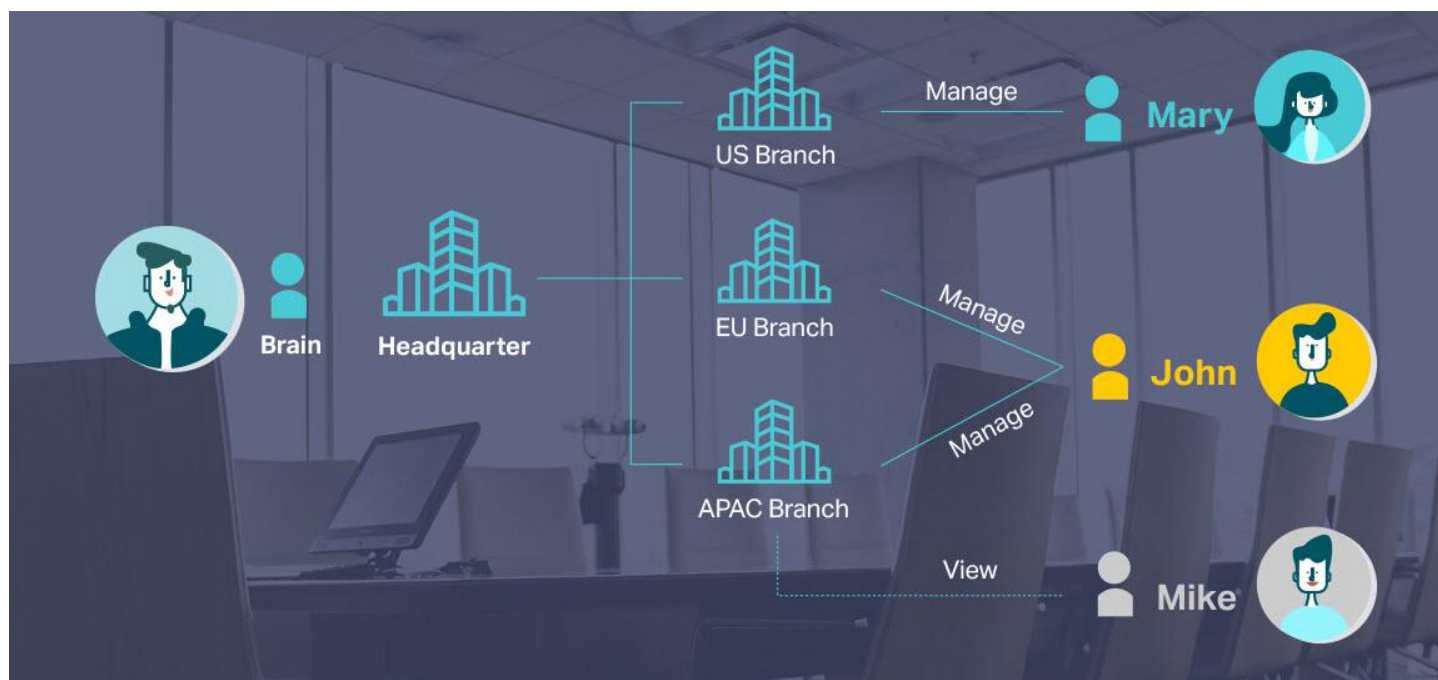Overall network status

Warning

Optimization

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.

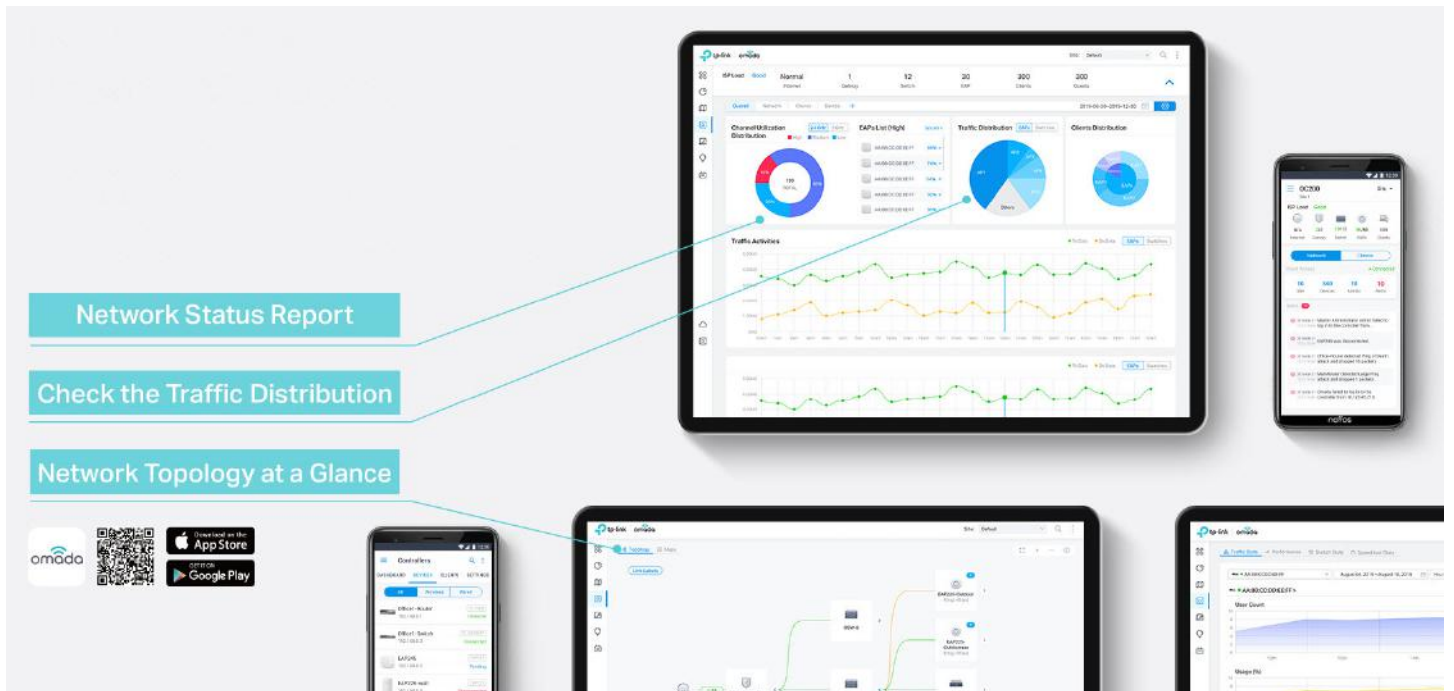● Channel 1   ● Channel 11   ● Channel 6
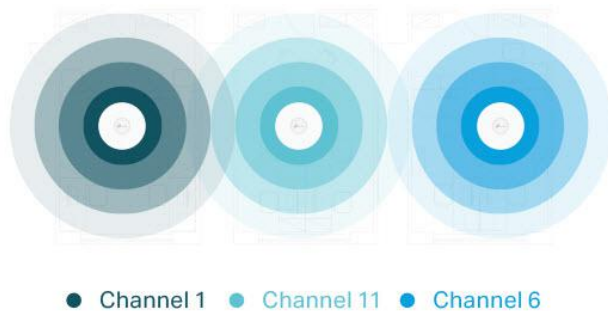
Assign Different Management Roles

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.

Brain   Headquarter

US Branch

EU Branch

APAC Branch

Manage   Mary

Manage

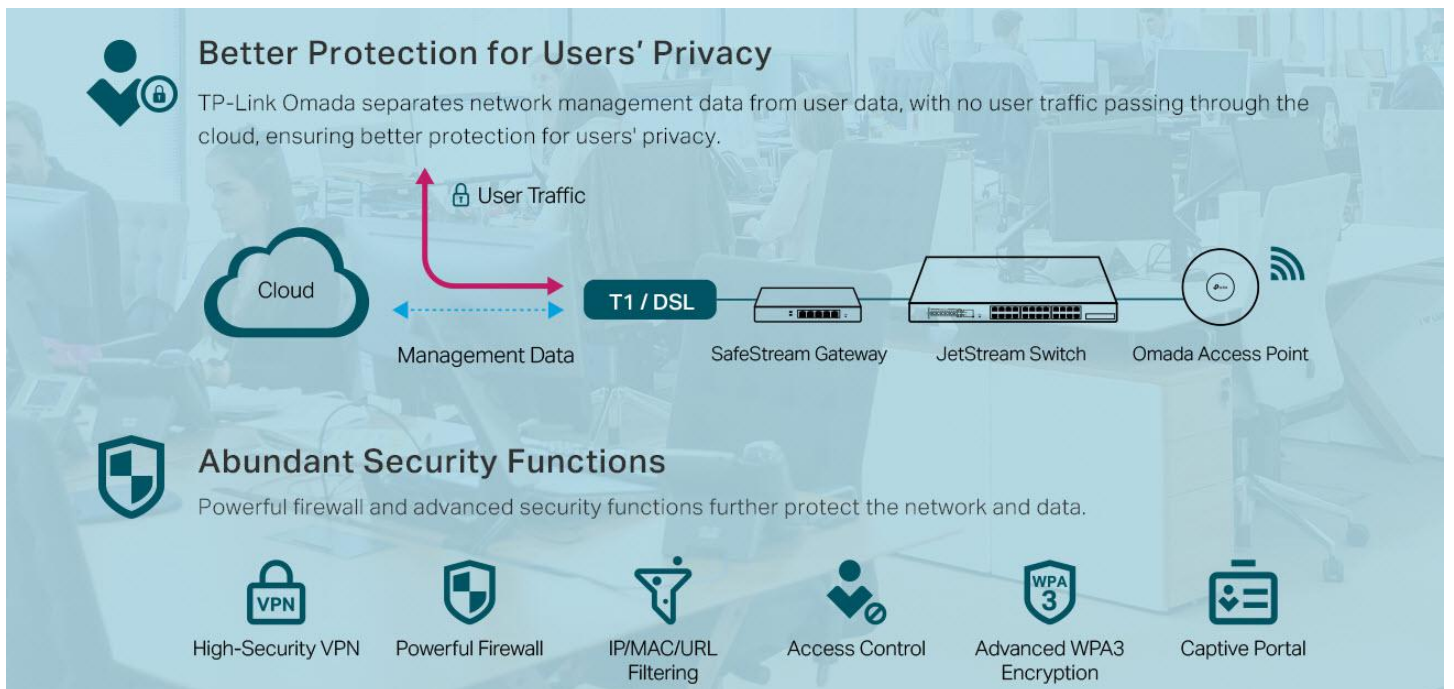Manage   John

View   Mike

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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.

Network Status Report

Check the Traffic Distribution

Network Topology at a Glance

Comprehensive Protection for the Whole Network

Better Protection for Users' Privacy

TP-Link Omada separates network management data from user data, with no user traffic passing through the cloud, ensuring better protection for users' privacy.

User Traffic

Cloud

T1 / DSL

Management Data   SafeStream Gateway   JetStream Switch   Omada Access Point

Abundant Security Functions

Powerful firewall and advanced security functions further protect the network and data.

High-Security VPN   Powerful Firewall   IP/MAC/URL Filtering   Access Control   Advanced WPA3 Encryption   Captive Portal

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.

99.9%
SLA Availability

24/7
Automated Fault Detection

Higher Reliability

Geographically Isolated
Back-Up Servers

Reliable Products
High Quality

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.
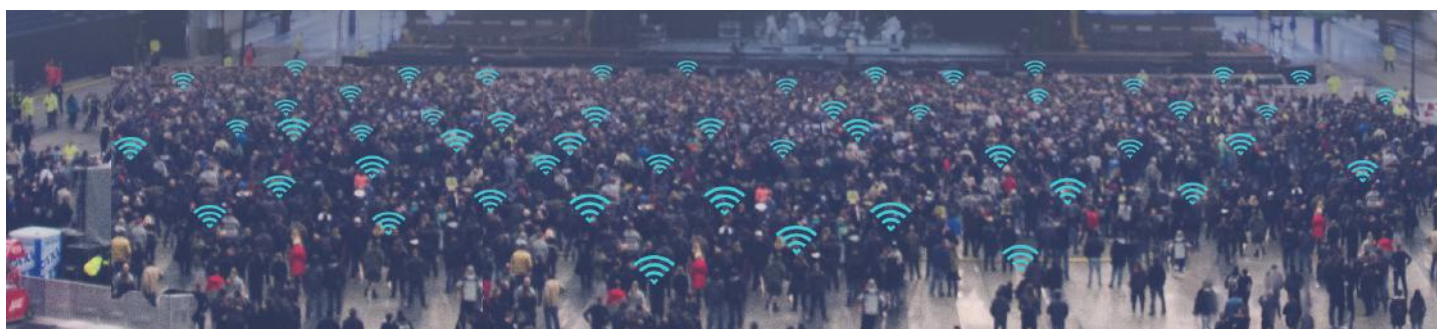
EAP Product Features

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	EAP673
Product	AX5400 Ceiling Mount Dual-Band Wi-Fi 6 Access Point
Speed	2.4 GHz: 574 Mbps 5 GHz: 4804 Mbps
Ethernet Port	1x 2.5Gbps Ethernet Port
Power Supply	802.3at PoE or 12V/2A DC Power Adapter Is Not Included
Internal Antennas	2.4 GHz: 2x 4 dBi 5 GHz: 4x 5 dBi

Specifications

Ceiling Mount 802.11ax Wi-Fi 6 AP		
Model		EAP673
Name		AX5400 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	574 Mbps (2.4 GHz)
		+4804 Mbps (5 GHz)
	Wireless Client Capacity	250+
	Antennas	2.4 GHz: 2x 4 dBi
		5 GHz: 4x 5 dBi
	Transmit Power	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); < 28 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: -93.5
		11AX 20MHz MCS11: -65.5
		11AX 40MHz MCS0: -90
		11AX 40MHz MCS11: -63
		11AX 80MHz MCS0: -88.5
		11AX 80MHz MCS11: -60.5
		11AX 160MHz MCS0: -85
		11AX 160MHz MCS11: -58.5
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	EAP673	
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	5G: 4x4 DL/UL 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 4804 Mbps (MCS0-MCS11, NSS = 1 to 4 HE20/40/80/160)
	802.11ac	6.5 Mbps to 4333.3 Mbps (MCS0-MCS11, NSS = 1 to 4 VHT20/40/80/160)
	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	EAP673	
Physical & Environment	Power Supply	802.3at PoE or 12V/2A DC Power Adapter Is Not Included
	Maximum Power Consumption	EU: 20.8W(For PoE); 18.5W(For DC) US: 22.3W(For PoE); 19.6W(For DC)
	Reset	•
	Mounting	Ceiling / Wall mouting (Kits included)
	Certifications	CE, FCC, RoHS, IC
	Dimensions (W x D x H)	220*220*32.5 mm
	Net Weight	670g
	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–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

	EAP673			
	Elevation-0°	Elevation-90°	Azimuth	Mapped 3D
2.45 GHz				
5.25 GHz				
5.5 GHz				
5.75 GHz				
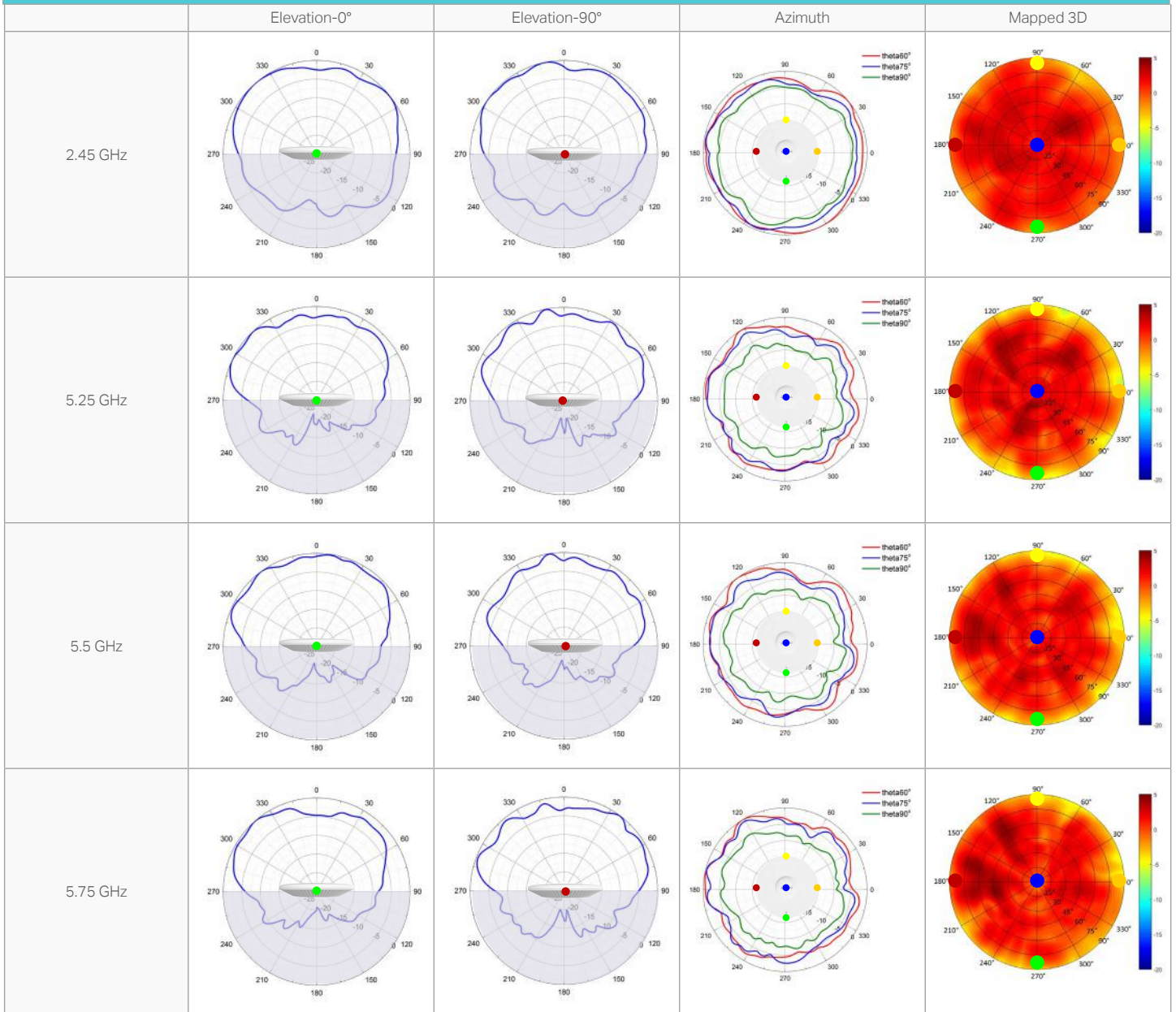
Disclaimers

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.

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