tp-link | Omada Pro

The Intelligent Cloud Solution for Enterprise Networking

MDUs | Hospitality | K-12 Education | Public Works | and More

2024 Product Guide

CORPORATE PROFILE

Founded in 1996, TP-Link is a global conglomerate specializing in network communications, consumer electronics, and surveillance. We've grown from humble beginnings to a world leader, consistently ranked as the No. 1 provider of Wi-Fi devices by analyst firm IDC for over a decade.* Our product range, featuring top brands like TP-Link®, Kasa®, Tapo®, TP-Link Omada®, Aginet™, and VIGI®, connects over 1.7 billion people in more than 170 countries.

We are committed to independent R&D, manufacturing, and marketing, ensuring high-quality, reliable, and high-performance products. Our three R&D centers and four global supply systems, supported by over 40 subsidiaries, underscore our operational excellence and innovative edge.

As we continue to harness cutting-edge technology, our focus remains on making life better with technology, fostering a sustainable and safer society, and bringing innovative solutions to users worldwide. Our guiding principle, 'Reliable,' is embedded in every aspect of our development, reflecting our dedication to enhancing technology's wonders for all.

*According to the IDC Worldwide Quarterly WLAN Tracker Report, Q4 2022 Final Release

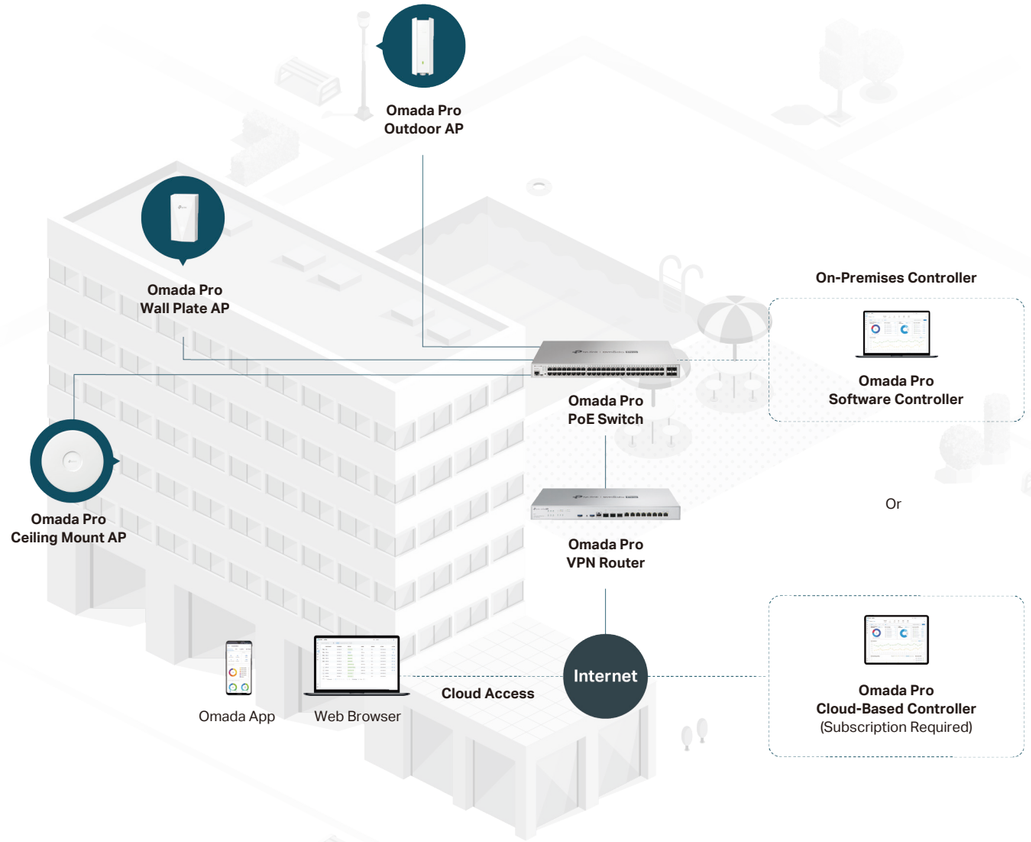
CONTENTS

Introduction of Omada Pro

Omada Pro—The Intelligent Cloud Solution for Enterprise Networking

Omada Pro is TP-Link Omada's enterprise-grade product line designed to meet the high-capacity, security, and management needs of various industries. It provides one-stop professional cloud solutions, integrating a complete set of devices such as controllers, access points, switches, and routers.

It's ideal for diverse vertical industries including multi-dwelling units (MDUs), K-12 education, hospitality, public works, catering, manufacturing, malls, and more.



Engineered for Enterprise Vertical Industries

Omada Pro is designed for industries that require enterprise-grade stability, security, performance, and simple operations and management.

Multi-dwelling Units (MDUs)

Hospitality

K-12 Education

Public Works

Catering

Manufacturing

Comprehensive Product Options

Omada Pro offers various products for more flexible network options, including controllers, access points, switches, and routers.

Omada Pro Controllers

- Cloud-Based Controller: Unlimited Scale
- Software Controller: Unlimited Scale*

Omada Pro Access Points

- Ceiling Mount/Wall Plate/Outdoor
- Industrial/High-Density/Wide Area Coverage Scenarios
- GE/2.5G/10G Ports
- Wi-Fi 7/Wi-Fi 6

Omada Pro Switches

- Stackable L3 Managed/L2+ Managed/Smart
- GE/2.5G/10G/25G/100G Ports
- PoE+/PoE++

Omada Pro Routers

- Wired/Wireless/4G+ Wi-Fi
- GE /10G Ports
- OpenVPN/SSL/IPSec/WireGuard/L2TP/PPTP VPN

*The actual management scale of the Omada Pro Software Controller depends on the PC/server's hardware specifications.

The Strengths of Omada Pro

Superb Pre-Sales Services

Certification and Training

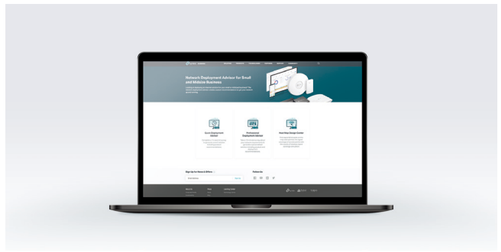
Empower your business with TP-Link Omada Training and Certification! No matter what your role is within TP-Link Omada, our program is devoted to helping you build the skills and knowledge you need to succeed. Join us today and unlock endless possibilities in the world of networking.

Omada Certified Network Admin Wireless (OCNA Wireless) is a comprehensive 2-day entry-level certification course. It blends theory and practical exercises using the Omada Demo Kit, which includes a controller, AP, and switch. OCNA simplifies the process of designing, optimizing, and troubleshooting network solutions.

The Omada Certified Network Professional (OCNP) certification in wireless, routing, and switching enhances your expertise and demonstrates your capabilities in networking as an Omada Certified Professional.

Tailored Network Deployment Advisor

Custom networking solutions tailored to meet your unique business needs with our advanced toolkit.



Professional Site Survey

Assesses clients' specific networking requirements with the expertise of the Omada Pro support team.

Superb After-Sales Services

Limited Lifetime Product Warranty

Deploy with peace of mind knowing your network is backed by a market-leading limited-lifetime warranty.*

Localization Support Teams

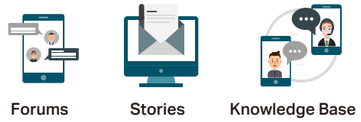
Multiple localization teams proficient in the local language are always on standby for our clients.

Official Omada Community

https://community.tp-link.com/en/business

Timely Q&A | Authoritative Technical Support | Case Sharing

Scan the QR code to know more.



Forums | Stories | Knowledge Base

*May vary by region/country.

Solid Brand Endorsement

Business Milestones and Market Performance

1996
TP-Link established

1998
Developed and produced their first Ethernet switch

2002
Released their first managed switch, broadband radio, and series of networking products

2005
Entered international markets

2010
World's No. 1 brand in the global WLAN market*

2014
Entered the business Wi-Fi market in China Mainland

2016
Released Omada Business Wi-Fi, and entered the international business Wi-Fi market

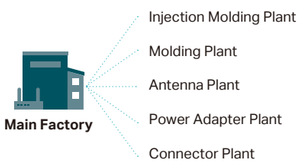
2019
- Omada EAP sales totaled over 1 million pcs overseas
- Entered Gartner Magic Quadrant**

2020
Omada SDN launched in Q2

2022
- World's **No. 1** Wi-Fi Product Provider for 12 Years*
- Omada Pro Solution launched

Vertical Integration

A Genuine Manufacturer with vertically integrated supporting facilities ensures complete quality, cost control, and high-level manufacturing, enabling better value than traditional OEM's.



Stable Supply Chain

- Four global manufacturing centers with global logistics
- Optimal logistics solution with 90% direct routes
- Local warehouses for sufficient local stock and fast delivery§

World's No. 1 Wi-Fi Product Provider

- World's No. 1 Wi-Fi Product Provider for 12 consecutive years*
- A Best-In-Class Total Value means reliable industry-standard solutions, comprehensive services, better support, and competitive pricing
- Over 20 years of product testing have built our hard-earned reputation for reliability

For **12** Consecutive Years
World's No.1

*Source: IDC Worldwide Quarterly WLAN Tracker, 2010 and 2022.
**Source: Gartner, Magic Quadrant for Enterprise Wired and Wireless LAN Infrastructure, 2019.
△Source: Gartner, Magic Quadrant for Enterprise Wired and Wireless LAN Infrastructure, November 2022. Gartner is a registered trademark and service mark of Gartner, Inc. and/or its affiliates in the U.S. and internationally and is used herein with permission. All rights reserved.
§Applicable to the US region and may vary by regions/countries.

Omada Pro Key Technologies

What is Wi-Fi 7?

Wi-Fi 7 is the upcoming Wi-Fi standard, also known as IEEE 802.11be Extremely High Throughput (EHT). It works across all three bands (2.4 GHz, 5 GHz, and 6 GHz) to fully utilize spectrum resources. While Wi-Fi 6 was built in response to the growing number of devices in the world, Wi-Fi 7's goal is to deliver astounding speeds for every device with greater efficiency. If you're struggling with constant buffering, lag, or congestion, a Wi-Fi 7 router may be your best solution.
Wi-Fi 7 introduces 320 MHz ultra-wide bandwidth, 4096-QAM, Multi-RU, and Multi-Link Operation to provide speeds 4.8× faster than Wi-Fi 6 and 13× faster than Wi-Fi 5. Unlock more scenarios than ever before.

2009	2013	2019	2021	2024
Wi-Fi 4 (802.11 n)	**Wi-Fi 5** (802.11 ac)	**Wi-Fi 6** (802.11 ax)	**Wi-Fi 6E** (802.11 ax)	**Wi-Fi 7** (802.11 be)
Up to 600 Mbps	Up to 6.9 Gbps	Up to 9.6 Gbps	Up to 9.6 Gbps, introducing the 6 GHz band	Up to 46 Gbps

What Does Wi-Fi 7 Bring?

With the upcoming 7th generation of Wi-Fi, the ultimate online experience will be unleashed.

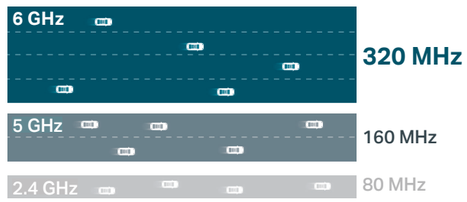
4.8× Faster
Wi-Fi 7 accelerates throughput up to 46 Gbps.

100× Lower Latency*
Worst Case Latency is 100× better compared to Wi-Fi 6 with 15× better AR/VR performance.

5× Network Capacity*
With 320 MHz and MLO (Multi-Link Operation), Wi-Fi 7 provides up to 5× greater capacity than Wi-Fi 6.

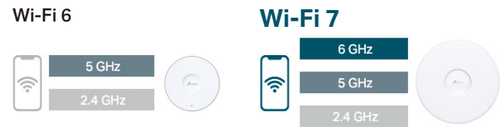
The Wide and Clear 6 GHz Band
Unlike the 2.4 GHz and 5 GHz that are filled with signals from microwave ovens, radio, phones, radar, satellite equipment, and Bluetooth, the 6 GHz band brings cleaner and wider band resources to Wi-Fi.

Up to 320 MHz Bandwidth Brings the Ultimate Speed
The 6 GHz band brings cleaner and wider band resources to Wi-Fi, and the Wi-Fi 7 protocol standard adds a 320 MHz bandwidth mode for 6 GHz, doubling Wi-Fi 6 throughput. Now your 8K devices can cruise at phenomenal speeds without any other devices impeding them.

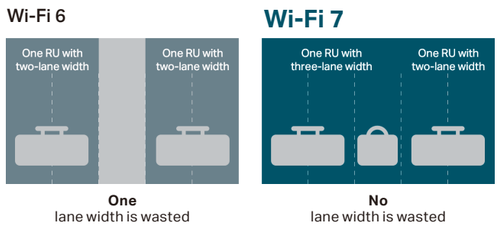


*Data is from Broadcom. Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput and wireless coverage are not guaranteed and will vary as a result of network conditions, client limitations, and environmental factors, including building materials, obstacles, volume and density of traffic, and client location.

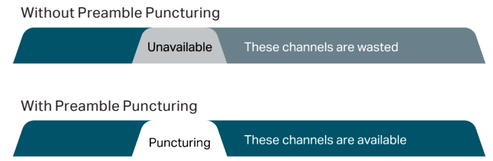
Multi-Link Operation (MLO) Increases Throughput, Reduces Latency and Improves Reliability
Simultaneously send and receive data over multiple radio bands to create a single aggregated connection. This will not only provide faster throughput performance, but will also help reduce latency and allow data to flow unimpeded by network traffic or interference.



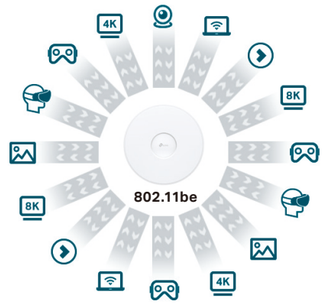
Multi-RU for Higher Spectrum Efficiency
Increases data transfer efficiency by introducing a more flexible way for Resource Unit (RU) allocation. Wi-Fi 7 allows multiple RUs to be assigned to a single user and combines RUs for increased transmission efficiency.



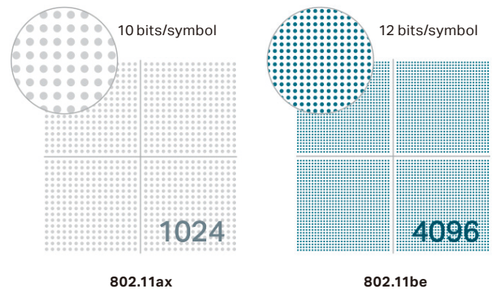
Preamble Puncturing for Stronger Anti-Jamming
Preamble Puncturing technology prevents interference on a portion of a channel from rendering the rest of the channel unusable.



Connect More Devices with 16×16 MU-MIMO
16 streams are available, double the theoretical physical transmission rate compared to Wi-Fi 6. This allows connections to more devices simultaneously, increasing overall throughput and peak performance.



Pack More Data with 4K-QAM
4096-QAM improves raw speeds by 20% compared to Wi-Fi 6's 1024-QAM. This enables flawless 4K/8K videos and massive online gaming without lag.



Backward Compatible with Wi-Fi 6 and Wi-Fi 6E Features

OFDMA for Increased Efficiency
Delivers multiple parcels of data to multiple devices simultaneously. This vast improvement in efficiency works for both uploads and downloads.

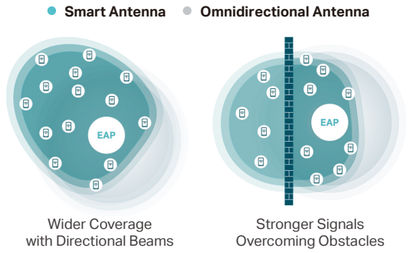
BSS Coloring for Anti-Jamming
Minimizes Wi-Fi conflicts with your neighbor by marking frames from neighboring networks so that your router can ignore them.

Target Wake Time
Schedules transmissions and allows a power-saving 20 MHz stream to coexist with a high-speed 160 MHz stream, improving battery life for mobile and IoT devices.

Omada Pro APs Offer Superb Performance

High-Density Scenarios Supported

The ceiling mount access points, AP9778, is built with a high capacity of over 1,000 users.



Experience Peak Performance with Smart Antennas

Improve Signal Strength | Suppress Interference | Extend Coverage

- Up to 4096 patterns are available, with four antennas for each band and four bands in total.
- Innovative algorithms will select the best signal pattern for a superior Wi-Fi experience, overcoming obstacles and signal interference.

Industrial-Grade Product Design

Better meets the industrial demands, such as more durable material and more efficient heat dissipation.

*Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput, wireless coverage, and connected devices are not guaranteed and will vary as a result of internet service provider factors, network conditions, client limitations, and environmental factors, including building materials, obstacles, volume and density of traffic, and client location.

Omada Pro Software-Defined Networking (SDN)

Omada Pro Software-Defined Networking (SDN) is a system with a controller as the core to realize automatic deployment of network services and automatic data distribution across access points, switches, and routers.

Management Platform

- Cloud-Based
- On-Premises Software

Management Scale

- Cloud-Based: Unlimited
- Software: Unlimited*

Management Devices

- Omada Pro Access Points
- Omada Pro Switches
- Omada Pro Routers
- Omada Devices**

Omada Pro Brings Intelligent Deployment and O&M

Intelligent Anomaly Detection and Analysis

The Omada Pro SDN system automatically detects network abnormalities and generates probable cause analysis for each incident and intelligent optimization recommendations.

- Analyze potential network problems and receive optimization suggestions for higher network efficiency.
- Locate network faults, warn and notify users, and generate solutions to lower network risk.
- Enable MSPs to quickly and remotely solve potential issues before they impact users, avoiding the need to delegate staff for on-site maintenance that affects clients' businesses.

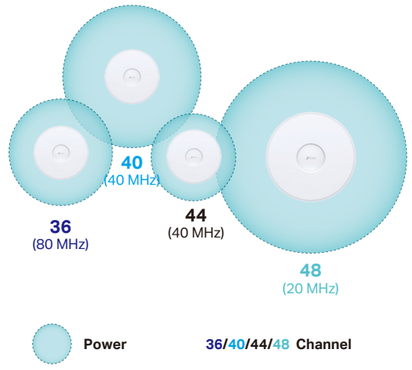
10 Key Anomaly Situations

Network Connecting	Mesh	Accessing	Roaming	Network Services
Software & Setup	Hardware	Security	Throughput	Coverage

Automated Radio Frequency Deployment

Provides multi-dimensional and automatic RF deployment decisions in high-density radio environments. Delivers dynamic and flexible deployment for clients' network fluency.

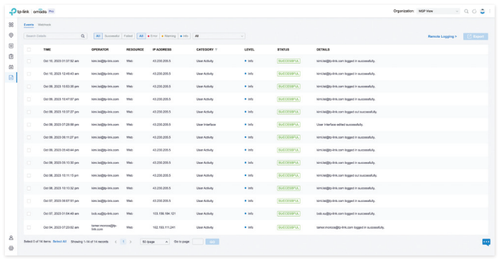
- Channel Selection
- Power Adjustment
- Bandwidth Allocation
- Frequency Band Deployment



*The actual management scale of the Omada Pro Software Controller depends on the PC/server's hardware specifications.
**Omada Pro Controller, which supports hybrid management devices, is currently under development.

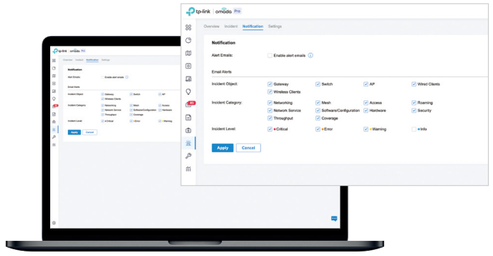
Audit Log

Meets the needs of long-term and large-capacity log storage, enhancing overall network audit security.



Network Abnormality Notifications

Dashboard Alerts and Automatic Email Alerts increase your network intelligence for timely alarms.

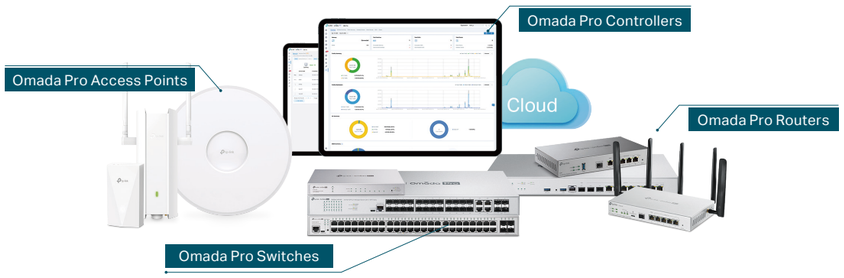


Omada Pro Delivers Efficient and Simple Management

Centralized Management

Full Network Device Management

The Omada Pro SDN solution provides a network with a controller as the core—all controlled from a single interface anywhere, anytime.



Real-Time Network Status and Full Report of Clients, Devices, WAN, and Wi-Fi

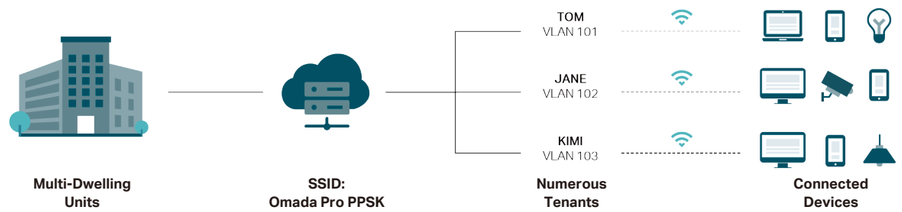
System integrators (SIs) can easily share network service quality and status with building administrators through tailored reports.

Easy and Intelligent Network Monitoring

The easy-to-use dashboard ensures SIs follow real-time network status and various kinds of information at a glance.

Private Pre-Shared Key (PPSK)

Creates unique pre-shared keys for individual users on the same SSID to enhance residents' network security.



One Wi-Fi SSID

Offer mesh coverage and seamless roaming without manual switching for your entire complex.

Unique VLANs

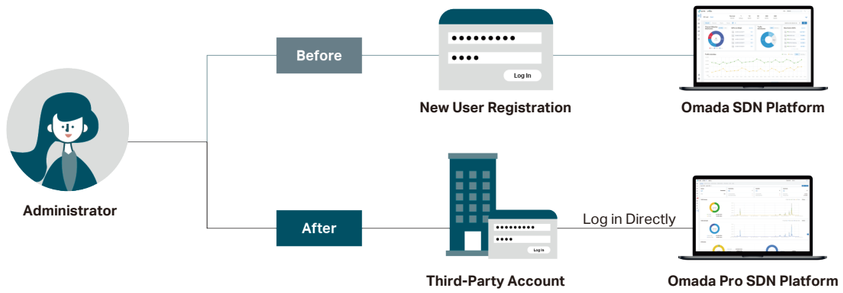
Set up an easy-to-deploy authentication method and solid data segregation for every unit.

Unique Passwords

Tenants receive their own passwords to the Wi-Fi separate from their neighbors.

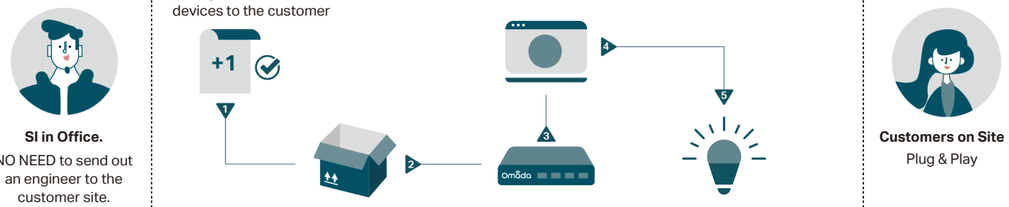
Single Sign On (SSO)

- Supports third-party accounts to log in to the Omada Pro SDN platform, such as the account of the apartment management system.
- Eases repeated login issues encountered by administrators while in multiple application systems at the same time.



Zero-Touch Provisioning (ZTP)*

Allows admins to remotely deploy and configure multi-site networks, so there's no need to send out an engineer for on-site configuration.



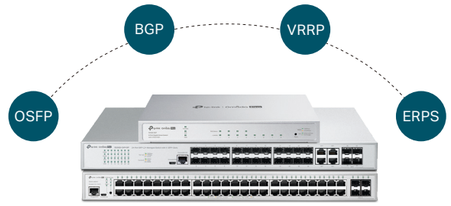
*Zero-Touch Provisioning (ZTP) requires the use of Omada Pro Cloud-Based Controller.

Open API

Device management and system monitoring through API to enhance system integration.

Abundant Layer 3 Switch Functions*

BGP, OSFP, VRRP, and more pragmatic functions unlock the power of the Layer 3 switches to empower your network management.



Omada Pro Provides Always-Assured Network Security

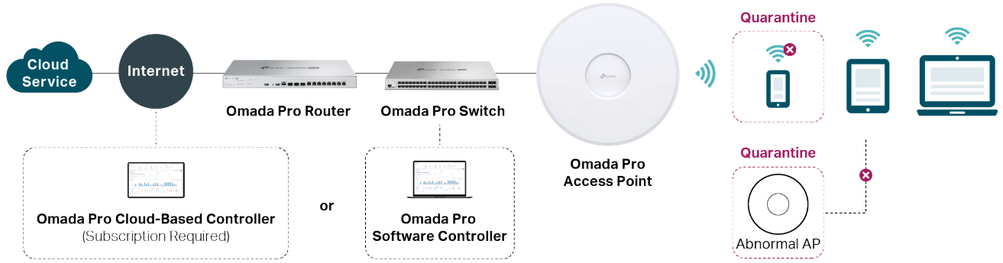
Wireless Intrusion Detection System/Wireless Intrusion Protection System (WIDS/WIPS)

WIDS

- Identifies and detects abnormal behaviors or attacks of abnormal APs and clients in the environment to quarantine them.
- Operates 24/7 and generally requires no management or admin involvement.
- Supports customizing detection levels and types according to clients' requirements.

WIPS

- Offers multiple protection methods to enhance network performance and safeguard its health.
- Protection methods include Deauthentication Counter and Dynamic Denylists.
- Instant, multi-dimensional, adaptive WIPS helps protect your sensitive information and network resources.

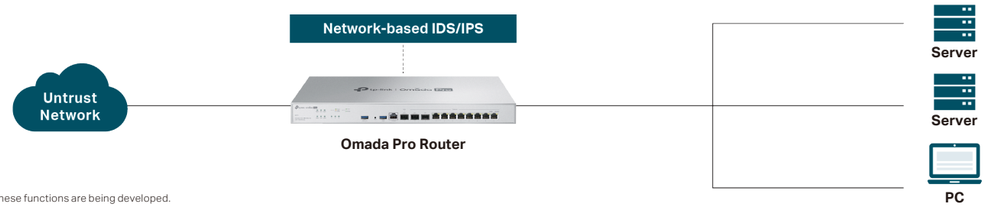


Intrusion Detection System/Intrusion Protection System (IDS/IPS)

Our routers have built-in IPS detection. They identify possible incidents and record relevant information by constantly monitoring the network, preventing incidents from happening, and reporting these incidents to security administrators.

- Supports the detection and protection of various threats, like password brute-forcing, botnets, malware, server and terminal vulnerability attacks, and more. The protection methods include **Block, Isolate Device, Allow List, and Signature Suppression**.
- Includes a built-in attack protection signature database that can be updated regularly and supports more than **4000+ signature rules**.

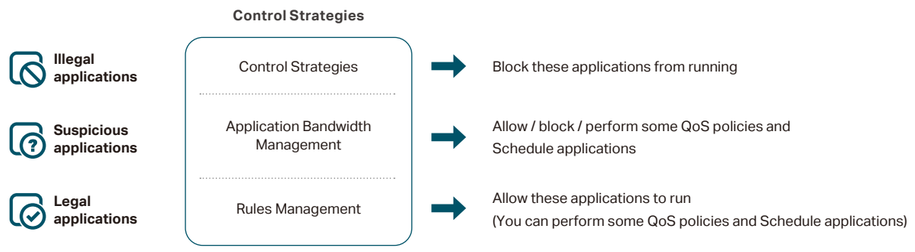
With IDS/IPS, our routers are ideal for industries with high-security requirements, such as MDUs, education, hospitality, and more.



*These functions are being developed.

Deep Packet Inspection (DPI)

Our products have a built-in application feature recognition library, which captures traffic packets through a DPI engine to analyze, identify, and match them with the application library. The recognition library can identify up to **40+** categories of mainstream software, including messaging, conferences, email, education, gaming, and more.
It features country/region-based traffic management to finely allocate and regulate available bandwidth for critical applications or application classes while suppressing unnecessary application traffic.



SD-WAN

Intelligent Route Selection

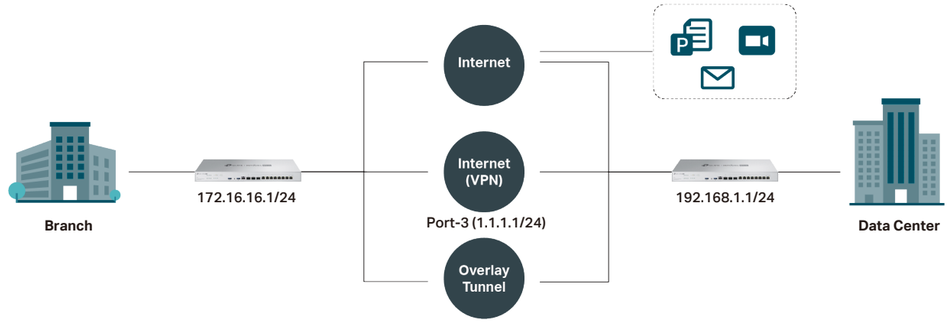
SD-WAN can automatically select the best path based on real-time network performance and application requirements, thereby improving network reliability and performance.

Quality of Service (QoS) Assurance

SD-WAN can classify and schedule traffic based on application priorities and performance requirements to ensure quality of service for critical business applications.

Centralized Management and Control

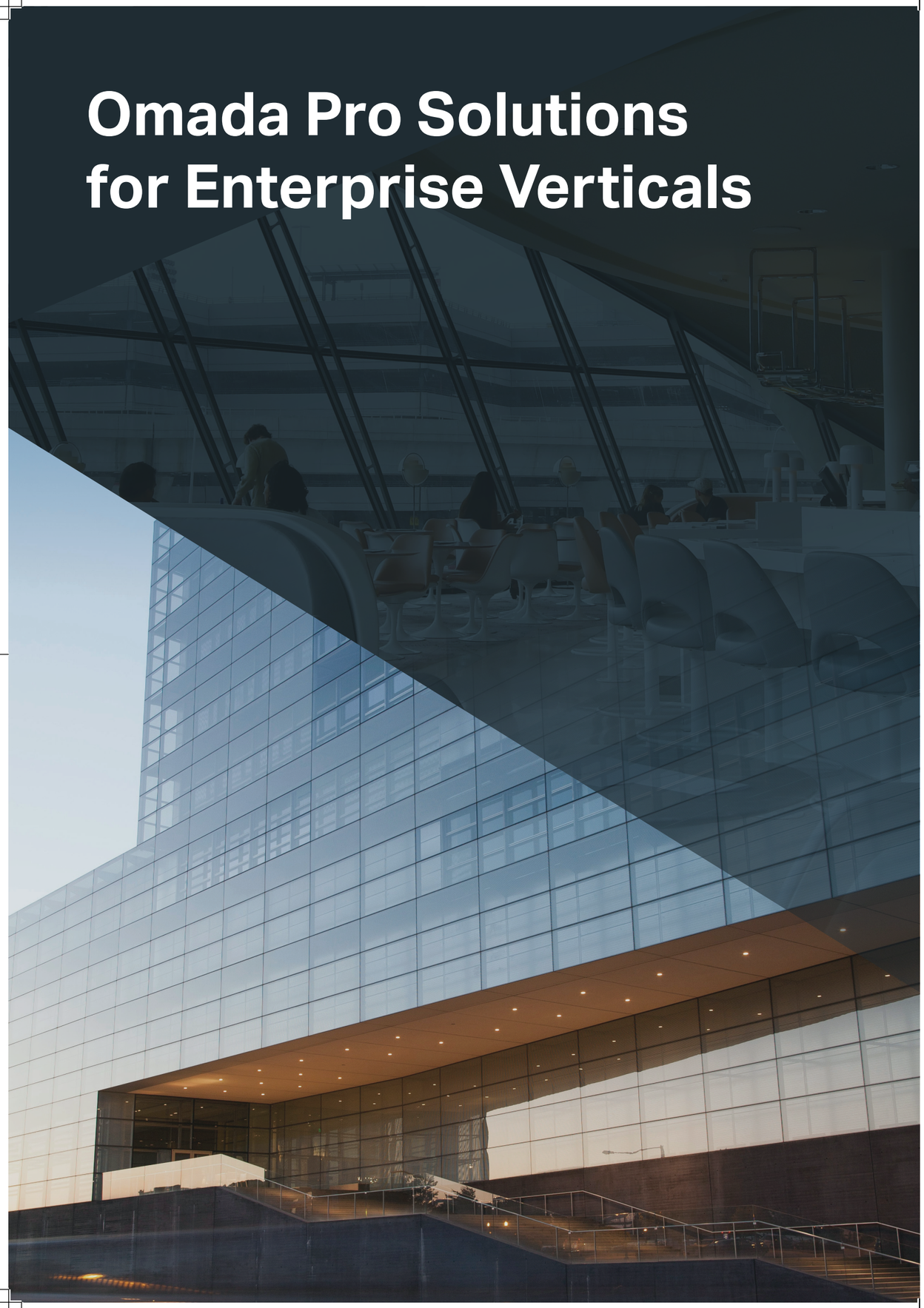
The visualized management platform of the entire network can perform single-point control of the entire network equipment.



Higher Reliability for Stable Operation

Cloud services are guaranteed with 99.9% SLA availability, 24/7 automated fault detection, geographically isolated back-up servers, and reliable product quality. Your network functions even if management traffic is interrupted.

Omada Pro Solutions for Enterprise Verticals



Tailor-Made Solutions for Vertical Industries

TP-Link Omada Pro is specially designed for diverse vertical industries including multi-dwelling units (MDUs), K-12 education, hospitality, public works, catering, manufacturing, malls, and more. Scenario-based products and comprehensive benefits satisfy different needs in various environments.

Multi-Dwelling Units (MDUs)

Student Housing | Apartments | Condominiums | Assisted & Senior Living | Military Housing

- Secure Wi-Fi onboarding
- Multi-tenant privilege assignment
- Easy centralized management
- Remote cloud troubleshooting

K-12 Education

Elementary Schools | Middle Schools or Junior High Schools | High Schools

- High-density Wi-Fi
- Flexible guest/staff/student authentication
- Flexible controller options and easy management
- Enterprise VPN and security

Hospitality

Starred Hotels | Budget Hotels

- Full Wi-Fi coverage and wired connections
- Hybrid controller options and easy management
- Flexible guest Wi-Fi policy
- Seamless roaming

Public Works

Stadiums | Libraries | Government

- High-density Wi-Fi
- Full Wi-Fi coverage in large open spaces
- Easy deployment in indoor and outdoor areas
- High network security in public areas

Catering

Restaurants | Cafes | Bars

- High-density Wi-Fi
- Seamless roaming
- Easy management
- Captive portals for marketing

Manufacturing

Factories | Production Workshops

- IoT location services
- Secure wireless and wired connections
- AI-driven technologies
- Seamless roaming

Omada Pro Solution for Multi-Dwelling Units (MDUs)

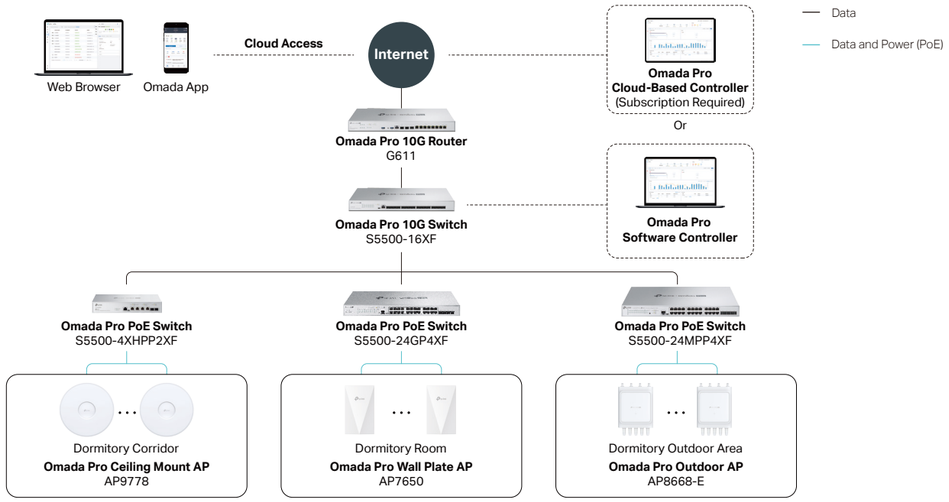
Student Housing | Apartments | Condominiums | Assisted & Senior Living | Military Housing

Enhancing the quality of life for residents in multi-dwelling units (MDUs)—including on- and off-campus student accommodations, apartments, condominiums, senior and assisted living facilities, and military housing—is imperative. In today's information-rich age, a seamless network experience is paramount.

Network Requirements

- Secure Wi-Fi onboarding
- Always-on wired and wireless networks
- Multi-tenant privilege assignment
- Easy centralized management and network maintenance
- Remote cloud troubleshooting

Typical Solution Topology



Omada Pro Solution Benefits

1.Ubiquitous Connectivity, Always-on Networking

Full-coverage wireless networking is always vital. The path to the future of ubiquitous connectivity begins with Omada Pro solutions.

Full Coverage Access Points

A full suite of Omada Pro ceiling mounts, wall plates, and outdoor access points provide stable and high-speed wireless access for every room and public area. With abundant hardware options, Omada Pro APs always have you covered.

AI Roaming for Uninterrupted Streaming

Shortens the switching time when moving around by switching clients automatically to the access points with the optimal signal, ensuring residents enjoy uninterrupted streaming.

Smart Antennas

Improve network performance, lower interference, and extend coverage for user-heavy dormitories. Tenants can enjoy a smooth and robust network through their tablets, phones, and PCs, even when conferencing.

Automated Radio Frequency Deployment

Provides tenants with automated channel selection, power adjustment, bandwidth allocation, and frequency band deployment.

2. Secure Connectivity, Always-Assured Security

Omada Pro always focuses on security to stay ahead of threats that plague dormitory networks. Creating a reliable and safe environment for residents is our top priority.

Private Pre-Shared Key (PPSK)

Creates a unique password & VLAN for each individual unit on the same SSID, enhancing residents' network security and convenience. An easy-to-deploy authentication method and solid data segregation is at your fingertips.

Various Network Abnormality Notifications

Dashboard alerts combined with automatic email alerts ensure real-time information synchronization. Secure your dormitory networks anytime, anywhere.

Protect Your Network from Threats

A robust firewall and advanced security functions further protect the network and data, including IDS/IPS, WIDS/WIPS, Access Control, advanced WPA3 Encryption, Captive Portal, and more.

Multiple Factors Guarantee Higher Reliability

Higher reliability of cloud service is guaranteed with 99.9% SLA availability, 24/7 automated fault detection, geographically isolated back-up servers, and reliable product quality.

3. Always-Efficient Network Management

Centralized Cloud Management

Remotely and centrally manage access points, switches, and routers—all controlled from a single easy-to-use interface.

Zero-Touch Provisioning (ZTP)

Ensures remote and efficient device configuration without sending out engineers for on-site visits.

Managed Service Provider (MSP) Mode

Ensures managed service providers can set up multi-customer and multi-site configurations according to their expanding management scope.

Multi-Tenant Privilege Assignment

Take advantage of multi-person management and multi-level permissions while adding administrators wherever necessary. These make feasible and flexible co-management of MSPs and clients possible.

Single Sign On (SSO)

Supports third-party accounts to log in to the Omada Pro SDN platform, such as the account of the dormitory management system.

Open API

Device management and system monitoring through API to enhance system integration.

4. Simple Operation and Maintenance

Real-Time Health Status and Full Report of Clients, Devices, WAN, and Wi-Fi

Gain insights into your network service quality at scale and with ease through customized reports.

AIOps Assurances for Optimized Performance

Batch Configuration makes a bulk of device configuration and remote firmware updates simple and efficient. Remote and quick troubleshooting tools locate network faults, warn and notify managers, and analyze potential network issues.

Audit Log & Network Status Record

Meets the needs of long-term and large-capacity log storage and helps administrators identify security risks, quickly query specific information, output alarm information, and more.

Easy and Intelligent Network Monitoring

The easy-to-use dashboard ensures IT managers follow real-time network status and various kinds of information at a glance.

Bridge VLAN

Shortens configuration and start-up times of VLANs, increases VLAN configuration scale with ease, and assures LAN-WAN operation performance.

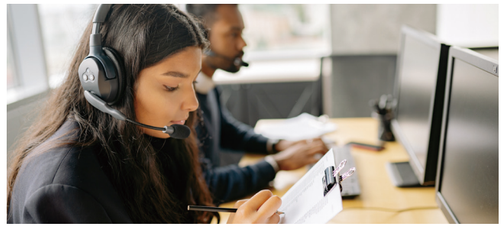
Integrated Troubleshooting Tools

PING, Traceroute, DNS QUERY, Terminal, Packet Capture, and more tools deliver robust assistance.

5. TP-Link Omada Pro Earns Your Trust

Superb Pre-Sales Services

- On-Site Survey
- Professional Certification and Training
- Tailored Network Deployment



Superb After-Sales Services

- Limited Lifetime Product Warranty*
- Localization Support Teams
- Official Business Community

Solid Brand Endorsement

- Vertical Integration
- Stable Supply Chain
- Strict Quality Management
- Best Price Control
- Local Warehouse for Sufficient Local Stocks§
- Four Global Manufacturing Centers for Fast Delivery

World's No. 1 Wi-Fi Product Provider for 12 Consecutive Years**

- A Best-In-Class Total Value means reliable industry-standard solutions, comprehensive services, better support, and competitive pricing
- Over 20 years of product testing have built our hard-earned reputation for reliability

*May vary by region/country.
**Source: IDC Worldwide Quarterly WLAN Tracker, Q4 2022
§Applicable to the US region and may vary by regions/countries.

Product Recommendations

Multi-Dwelling Units (MDUs)			
Product	**Model**	**Role**	**Features**
Router	G611	Gateway	· **Quad-Core** 2.2 GHz CPU · **2× 10G** SFP+ Ports · 1× Gigabit SFP Port · 8× Gigabit RJ45 Ports · Up to 10 WAN Ports · **Bridge VLAN**
Switches	S5500-16XF	Aggregation Layer Switch	· Full 10G Connections · **16× 10G** SFP+ Ports · Dual Redundant Power Supplies
	S5500-4XHPP2XF	Connecting APs with 10G Ports	· Full 10G Connections · 2× 10G SFP+ Slots · **4× 10G** PoE++ RJ45 Ports · Power Budget: 200 W
	S5500-24MPP4XF	Connecting APs with 2.5G Ports	· **4× 10G** SFP+ Slots · 24× 2.5G RJ45 Ports (8× PoE++, 16× PoE+) · Power Budget: 500 W
	S5500-24GP4XF	Connecting APs, IP Cameras, IP Phones, and PCs	· 4× 10G SFP+ Slots · 24× Gigabit PoE+ RJ45 Ports · Power Budget: 384 W
Ceiling Mount AP	AP9778 (HD)	Room Wi-Fi	· **Wi-Fi 7** speeds up to 22 Gbps* · Supports the **6 GHz band** · **2× 10G** PoE++ Ports · 1x USB 2.0 Port · Connections for **1,000+** devices · Intelligent Anomaly Detection and Analysis · **WIDS/WIPS**
	AP9665 (HD)	Wi-Fi for Indoor Public Areas and Corridors	· Wi-Fi 6 speeds up to 3.6 Gbps · **1× 2.5G** PoE++ Port and 1× Gigabit Port · 1x USB 2.0 Port · Connections for **1,000+** devices · Intelligent Anomaly Detection and Analysis · **WIDS/WIPS**
Wall Plate AP	AP7650	Room Wi-Fi	· Wi-Fi 6 speeds up to 3.0 Gbps · **4× Gigabit** RJ45 Ports · 802.3af/at PoE Input and PoE Passthrough · Intelligent Anomaly Detection and Analysis · **WIDS/WIPS**
Outdoor AP	AP8668-E (IP67)	Wi-Fi for Outdoor Public Areas	· Wi-Fi 6 speeds up to 3.6 Gbps · **1× 2.5G** PoE Input Port and 1×Gigabit PoE Output Port · 1× 10G SFP+ Slot · Support **AC Power** Input · **IP67** Weatherproof Enclosure

*Refers to the US version. EU version speeds reach up to 19 Gbps.

Typical Cases

New Oakland Apartments

Name: New Oakland Apartments
Location: Oakland, California
Project Scope: New Multifamily Development with 100+ Units
Products: Controller, Access Points, Switches, Routers

Benefits

GSD solutions, a Bay Area managed service provider, successfully completed the first TP-Link MDU network deployment for high-speed managed Wi-Fi services.

Testimonials

'We were looking for a vendor that could do pre-shared key for our clients at a reasonable price point. TP-Link fits that bill.'

'We needed a solution that could do PPSK, and that could be a firewall, PoE switch, and access points. The features are excellent, and we have had no issues with any of the products. We also like the fact that they can be cloud-managed - PPSK, availability, pricing, and the overall solution.'

'TP-Link's team helped us overcome the challenges of finding the right vendor to meet our project needs. They are great to work with. They pick up the phone and respond to emails. They support our work.'

—Davison, CTO at GSD Solutions

Resort Condominiums

Name: Resort Condominiums
Location: White Sand Beaches of Florida's Gulf Coast
Project Scope: Upgrade 14K condominium units and indoor/outdoor common areas to Wi-Fi 6
Products: On-Premises Controller, Access Points

Benefits

TP-Link Omada Pro helped streamline MSP operations, reducing deployment time by 30%.

Testimonials

'Both my other vendors were actually very depleted in stock, and they didn't have Wi-Fi 6, so those were the first big drivers on what got me looking at TP-Link again.'

'The one feature - I can't say I selected the product because of - but we are really enjoying the meshing capabilities. We didn't have this option with our previous product. The Omada Mesh was nice because these are beachfront resorts, and we're in closets where wiring gets exposed to sea air, which results in copper corrosion. When we encounter an AP that goes off the air because the wire became corroded [and] is no longer passing data, it's great to go to the switch, turn off the port, and mesh that AP with a neighboring AP, all without a truck roll. So that's becoming a highly convenient feature to have.'

'AP installation is much more efficient because the controllers are preconfigured. Once the APs are plugged in, they instantly show up. We adopt them, assign a Wi-Fi profile, and voila, they're done! The controller has easily sped up our deployment time by 20 or 30 percent.'

—Luis Santos, vice president of engineering at IPacket Networks

Product Specifications

Omada Pro Controllers

Model		On-Premises Omada Pro Software Controller	Omada Pro Cloud-Based Controller
Product Picture			
Main Design	Usage Method	Deploy to intranet servers or private clouds	Log in and use with zero-touch provisioning
	Pricing Model	Device license fee	Device license fee
	Cloud Access	√	
Device Management	Support Devices	TP-Link Omada Pro devices, including access points, switches, and routers; TP-Link Omada devices**	
	Management Scale	Unlimited*	Unlimited
	Network Type	Medium/Large Networks	Medium/Large Multi-Site Networks
	AP Automatic Discovery	√	
	AP Unified Configuration	√	
	VPN	√	
System Management	Zero-Touch Provisioning	-	√
	Intelligent Anomaly Detection and Analysis	√	
	L3 Management	√	
	Multi-Site Management	√	
	Multi-User Privilege Assignment	√	
	Wi-Fi Heatmap Simulator	√	
	Network Summary Report	√	
	Batch Configuration	√	
	Batch Firmware Upgrading	√	
	Online Firmware Upgrade	√	
	Reboot Schedule	√	
Security	Management VLAN	√	
	MAC Filter	√	
	Encryption	WPA-Personal/Enterprise, WPA2-Personal/Enterprise, WPA3-SAE/Enterprise	
	Access Control	√	
	SSID to VLAN Mapping	√	
	IDS/IPS	√	
	WIDS/WIPS	√	
Wireless Function	Wireless Intelligent Tuning	Include Channel & Power & Bandwidth & Frequency	
	Captive Portal	SMS, Voucher, Local User, Simple Password, External RADIUS Portal	
	Seamless Roaming / AI Roaming	√	
	Mesh	√	
	Band Steering	√	
	Load Balance	√	
	Beamforming	√	
	Rate Limit	Based on SSID/Client	
	Wireless Schedule	√	
	PPSK	√	

*Actual management scale of the Omada Pro Software Controller depends on the PC/server's hardware specifications.
**Omada Pro Controller, which supports hybrid management devices, is currently under development.

Omada Pro Ceiling Mount Access Points – Wi-Fi 7

		Wi-Fi 7
		Ceiling Mount AP
Product Picture		HD
Model		AP9778 V1.0
Product Description		Omada Pro BE22000 Ceiling Mount Wi-Fi 7 Access Point
Main Design	Wi-Fi Class	US: BE22000; EU: BE19000
	Wi-Fi Speed (2.4 GHz)	1376 Mbps
	Wi-Fi Speed (5 GHz)	US: 8640 Mbps; EU: 5760 Mbps
	Wi-Fi Speed (6 GHz)	11520 Mbps
	Ethernet Ports	2× 10 GE Ports (One Supporting PoE++)
	HE320	√
	Smart Antennas	√
	Bluetooth	√
	Power Supply**	802.3bt PoE or 12V/4.5A DC
	Dimensions (W × D × H)	11 × 11 × 2.3 in (280 × 280 × 58.7 mm)
	Mounting	Ceiling / Wall Mounting (Kits included) Junction Box Mounting
Management	Omada Pro Software Controller	√
	Omada Pro Cloud-Based Controller	√
	Cloud Access*	√
	Omada App	√
	Standalone Management	√
Wireless Functions	4096-QAM	√
	Multi-Link Operation (MLO)	√
	Multi-Resource Units	√
	Preamble Puncturing	√
	MU-MIMO	√
	4× Longer OFDM Symbol	√
	OFDMA	√
	BSS Coloring	√
	Mesh*	√
	Seamless Roaming*	√
	Beamforming	√
	Airtime Fairness	√
	Automatic Channel Selection	√
	PPSK	√
	Transmit Power Control	Adjust Transmit Power on dBm
	Multiple SSIDs	24 (8 on each band)
	Others	Intelligent Anomaly Detection and Analysis, Automated Radio Frequency Deployment, Wireless Schedule, Reboot Schedule, Auto Backup, Load Balance, Rate Limit
Security	WIDS/WIPS	√
	Captive Portal*	SMS, Voucher, Local User, Simple Password, External RADIUS Portal
	Access Control	√
	Wireless MAC Address Filtering	√
	SSID to VLAN Mapping	√
	Rogue AP Detection	√
	802.1X Support	√
	WPA3	√
	Encryption	WPA-Personal/Enterprise, WPA2-Personal/Enterprise, WPA3-Personal/Enterprise

*These functions require the use of an Omada Pro SDN controller.
**Power and PoE adapters are not included.

Omada Pro Ceiling Mount Access Points – Wi-Fi 6

		Wi-Fi 6				
Product Picture			HD		HD	HD
Model		AP9670 V1.0	AP9665 V1.0	AP9650 V1.0	AP9635 V1.0	AP9635 V2.0
Product Description		Omada Pro AX5400 Ceiling Mount Wi-Fi 6 Access Point	Omada Pro AX3600 Ceiling Mount Wi-Fi 6 Access Point	Omada Pro AX3000 Ceiling Mount Wi-Fi 6 Access Point	Omada Pro AX1800 Ceiling Mount Wi-Fi 6 Access Point	
Main Design	Wi-Fi Class	AX5400	AX3600	AX3000	AX1800	
	Wi-Fi Speed (2.4 GHz)	574 Mbps	1148 Mbps	574 Mbps	574 Mbps	
	Wi-Fi Speed (5 GHz)	4804 Mbps	2402 Mbps	2402 Mbps	1201 Mbps	
	Ethernet Ports	1× 2.5 GE PoE+	1× 1 GE 1× 2.5 GE PoE++	1× 1 GE PoE+	1× 1 GE PoE+	
	Antennas	2.4 GHz: 2× 4 dBi 5 GHz: 4× 5 dBi	2.4 GHz: 4× 4 dBi 5 GHz: 4× 5 dBi	2.4 GHz: 2× 4 dBi 5 GHz: 2× 5 dBi	2.4 GHz: 2× 4 dBi 5 GHz: 2× 5 dBi	
	HE160	√	-	√	-	
	Bluetooth	-	√	-	-	√
	Power Supply**	802.3at PoE or 12V / 1.5A DC	802.3at/bt PoE or 12V DC	48V Passive PoE or 802.3at PoE or (EU)12V/1A DC (US)12V/1.5A DC	48V Passive PoE or 802.3at PoE or 12V / 1.5A DC	
	Dimensions(W × D × H)	9.6 × 9.6 × 2.5 in (243 × 243 × 64 mm)	8.7 × 8.7 × 1.3 in (220 × 220 × 32.5 mm)	6.3 × 6.3 × 1.3 in (160 × 160 × 33.6mm)		
	Mounting	Ceiling / Wall Mounting (Kits included)	Ceiling / Wall Mounting (Kits included) Junction Box Mounting			
Management	Omada Pro Software Controller	√				
	Omada Pro Cloud-Based Controller	√				
	Cloud Access*	√				
	Omada App	√				
	Standalone Management	√				
Wireless Functions	1024-QAM	√				
	MU-MIMO	√				
	4× Longer OFDM Symbol	√				
	OFDMA	√				
	BSS Coloring	√				
	Mesh*	√				
	Seamless Roaming*	√				
	Beamforming	√				
	Airtime Fairness	√				
	Automatic Channel Selection	√				
	PPSK	√				
	Transmit Power Control	Adjust Transmit Power on dBm				
	Multiple SSIDs	16 (8 on each radio)				
	Others	Automated Radio Frequency Deployment, Wireless Schedule, Reboot Schedule, Auto Backup, Load Balance, Rate Limit				
Security	Captive Portal*	SMS, Voucher, Local User, Simple Password, External RADIUS Portal				
	Access Control	√				
	Wireless MAC Address Filtering	√				
	SSID to VLAN Mapping	√				
	Rogue AP Detection	√				
	802.1X Support	√				
	WPA3	√				
	Encryption	WPA-Personal/Enterprise, WPA2-Personal/Enterprise, WPA3-Personal/Enterprise				
	Others	Wireless Intrusion Detection/ Intrusion Protection System (WIDS/WIPS), Intelligent Anomaly Detection and Analysis				

*These functions require the use of an Omada Pro SDN controller.
**Power and PoE adapters are not included.

Omada Pro Outdoor & Wall Plate Access Points

		Wi-Fi 6			
		Outdoor Access Points			Wall Plate Access Point
Product Picture					
Model		AP8668-E V1.0	AP8635-E V1.0	AP8635-I V1.0	AP7650 V1.0
Product Description		Omada Pro AX3600 Indoor/Outdoor Wi-Fi 6 Access Point	Omada Pro AX1800 Indoor/Outdoor Wi-Fi 6 Access Point		Omada Pro AX3000 Wall Plate Wi-Fi 6 Access Point
Main Design	Wi-Fi Class	AX3600	AX1800		AX3000
	Wi-Fi Speed (2.4 GHz)	1147 Mbps	574 Mbps	574 Mbps	574 Mbps
	Wi-Fi Speed (5 GHz)	2402 Mbps	1201 Mbps	1201 Mbps	2402 Mbps
	Ethernet Ports	1× 2.5 GE RJ45 (PoE In) 1× 1 GE RJ45 (PoE Out) 1× 10 GE SFP	1× 1 GE PoE+	1× 1 GE PoE+	4x 1 GE Port
	Antennas	TBD	2.4 GHz: 2×3 dBi 5 GHz: 2×5 dBi	2× Internal Omni Antennas: 2.4 GHz: 2×4 dBi 5 GHz: 2×5 dBi	2.4 GHz: 2×3 dBi 5 GHz: 2×5 dBi
	Bluetooth	√*	√*	-	-
	Power Supply	· 802.3bt PoE In; · 802.3at PoE Out; · Additionally Support AC Power Input (PoE Adapter Not Included)	802.3at PoE or 48V/0.5A Passive PoE (PoE Adapter Not Included)	802.3at PoE or 48V/0.5A Passive PoE (PoE Adapter Not Included)	802.3af/at PoE
	Dimensions (W × D × H)	TBD	11.0 × 7.2 × 2.2 in (280.4 × 182.2 × 56.9 mm)**	11.0 × 4.2 × 2.2 in (280.4 × 106.5 × 56.8 mm)	5.6 × 3.4 × 1.7 in (143 × 86 × 42.6 mm)
	Mounting	Pole / Wall Mounting (Kits included)			Wall Mounting (Kits included)
Management	Omada Pro Software Controller	√			
	Omada Pro Cloud-Based Controller	√			
	Cloud Access^	√			
	Omada App	√			
	Others	Intelligent Anomaly Detection and Analysis, Intelligent Network Optimization, Management MAC Access Control, System Log, Email Alerts			
Wireless Functions	Multiple SSIDs	16 (8 for 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	√			-
	PPSK	√			
	Rate Limit	Based on SSID/Client			
	Others	Load Balance, Airtime Fairness, Band Steering, MAC Authentication, Reboot Schedule, Wireless Schedule, Wireless Statistics, Static IP/Dynamic IP			
Security	WIDS/WIPS	√			
	Captive Portal Authentication^	√			
	Access Control	√			
	Maximum Number of MAC Filter	4,000			
	Wireless Isolation Between Clients	√			
	VLAN	√			
	Rogue AP Detection	√			
	Wireless Encryption	WPA-Personal/Enterprise, WPA2-Personal/Enterprise, WPA3-Personal/Enterprise			
	802.1X Support	√			
Environment		TBD	· Operating Temperature: -30 °C–70 °C (-22 °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		· 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

*Please note that Bluetooth software must be added, but the hardware is already configured in the product during shipping.
**The dimension information only includes the product and bracket and excludes the detachable external antennas.
^These functions require the use of an Omada Pro SDN controller.

Omada Pro Stackable L3 Managed Switches (Aggregation & Core)

		Aggregation			Core
		10G + 25G Uplink	10G + 100G Uplink	25G + 100G Uplink	Full 100G
Product Picture					
Model		S7500-26XF6Y	S7500-48XF4C	S7500-24Y4C	S7500-32C
Hardware	10 GE SFP+ Slots	26	48	-	-
	25 GE SFP28 Slots	6	-	24	-
	100 GE QSFP28 Slots	-	4	4	32
	USB Ports	2× USB 3.0			
	Console Ports	1× RJ45 + 1× USB Type C Console Port			
	Management Port	1× RJ45			
	Power Supply	Max 2 Hot Swappable Power Supply Modules			
	Stacking	√			
	Fan Quantity	4× Hot Swappable Fan Modules, N+1 Redundant			5× Hot Swappable Fan Modules, N+1 Redundant
	Dimensions (W × D × H)	17.3 × 15.0 × 1.7 in (440 × 380 × 44 mm)			17.3 × 16.5 × 1.7 in (440 × 420 × 44 mm)
	Installation	Rackmount			
	Operating Temperature	0 °C to 45 °C (32 °F to 113 °F)			
Performance	Switching Capacity (Gbps)	820	1760	2000	6400
	Forwarding Rate (Mpps)	610.1	1309.5	1488.1	4761.9
	MAC Address Table	128K		256K	
	Packet Buffer	8MB	10MB	8MB	24MB
	Jumbo Frame	9KB			
L3 Features	Routing	Static Routing, RIP v1/v2/ng, OSPFv2/v3, BGP, IS-IS, VRRP, PBR, BFD, uRPF, ECMP			
	DHCP	DHCP Server, DHCP Relay, DHCP Snooping			
	Multicast	IGMP v1/v2/v3, PIM-DM, PIM-SM, PIM-SSM, Static Multicast Routing			
	Others	VRF, ARP Proxy			
L2 Features	ERPS	√			
	STP/RSTP/MSTP	√			
	VLAN	802.1Q/MAC/Protocol/Private/Voice VLAN			
	QoS	√			
	Others	Loopback Detection, IPv6, QinQ, MAC Flapping, Rate Limit, Port Isolation, GVRP, Port Mirroring, Static LAG / LACP, MLD Snooping, QoS, Bandwidth Control			
Security	Security Functions	Port Security, Port Isolation, ACL, IP-MAC Binding, ARP Inspection, IP Source Guard, DoS Defend, 802.1X, CPU-Defend, Secure Boot			
System Management	Controller Mode	Omada Pro Software Controller; Automatic Device Discovery; Batch Configuration; Batch Firmware Upgrading; Intelligent Network Monitoring; Abnormal Event Warnings; Unified Configuration; Reboot Schedule			
	Standalone Mode	√			
	ZTP	√			
	Others	CLI, SPAN/ RSPAN, sFlow, Cable Diagnostics, Configuration rollback, Hotfix, NETCONF, SNMP			

Omada Pro Stackable L3 Managed Switches (Access)

		Access							
		GE + 10G Uplink				2.5GE + 10/25G Uplink			
Product Picture									
Model		S6500-24G4XF	S6500-24GP4XF	S6500-48G6XF	S6500-48GP6XF	S6500-24M4Y	S6500-24MPP4Y	S6500-48M6Y	S6500-48MPP6Y
Hardware	GE RJ45 Ports	24	24	48	48	-	-	-	-
	2.5 GE RJ45 Ports	-	-	-	-	24	24	48	48
	10 GE SFP+ Slots	4	4	6	6	-	-	-	-
	25 GE SFP28 Slots	-	-	-	-	4	4	6	6
	USB Ports	2× USB 2.0							
	Console Ports	1× RJ45 + 1× USB Type-C Console Port							
	Management Port	1× RJ45							
	Power Supply	2× Internal Fixed Power Supply Modules	Max 2 Hot Swappable Power Supply Modules	2× Internal Fixed Power Supply Modules	Max 2 Hot Swappable Power Supply Modules				
	Stacking	√							
	Fan Quantity	4× Internal Fixed Fans	4× Hot Swappable Fan Modules, N+1 Redundant	4× Internal Fixed Fans	4× Hot Swappable Fan Modules, N+1 Redundant				
	Dimensions (W × D × H)	17.3 × 15.0 × 1.7 in (440 × 380 × 44 mm)	17.3 × 16.5 × 1.7 in (440 × 420 × 44 mm)	17.3 × 15.0 × 1.7 in (440 × 380 × 44 mm)	17.3 × 16.5 × 1.7 in (440 × 420 × 44 mm)				
	Installation	Rackmount							
	Operating Temperature	0 °C to 45 °C (32 °F to 113 °F)							
PoE	PoE Standard	-	802.3af/at, up to 30W per port	-	802.3af/at, up to 30W per port	-	802.3af/at/bt, up to 60W per port	-	802.3af/at/bt, up to 60W per port
	PoE Port	-	24× PoE+	-	48× PoE+	-	24× PoE++	-	48× PoE++
	PoE Power Budget	-	Max 720 W	-	Max 1440 W	-	Max 1440 W	-	Max 1600 W*
Performance	Switching Capacity (Gbps)	128	128	216	216	320	320	540	540
	Forwarding Rate (Mpps)	95.2	95.2	160.7	160.7	238.1	238.1	401.8	401.8
	MAC Address Table	32K							
	Packet Buffer	3MB							
	Jumbo Frame	9KB							
L3 Features	Routing	Static Routing, RIP v1/v2/ng, OSPFv2/v3, BGP, IS-IS, VRRP, PBR, BFD, uRPF, ECMP							
	DHCP	DHCP Server, DHCP Relay, DHCP Snooping							
	Multicast	IGMP v1/v2/v3, PIM-DM, PIM-SM, PIM-SSM, Static Multicast Routing							
	Others	VRF, ARP Proxy							
L2 Features	ERPS	√							
	MACSec	√							
	VLAN	802.1Q/MAC/Protocol/Private/Voice VLAN							
	QoS	√							
	Others	LAG, LACP, GVRP, STP, RSTP, MSTP, IGMP Snooping, MLD Snooping, QoS, Bandwidth Control							
Security	Security Functions	Port Security, Port Isolation, ACL, IP-MAC Binding, ARP Inspection, IP Source Guard, DoS Defend, 802.1X, CPU-Defend, Secure Boot							
System Management	Controller Mode	Omada Pro Software Controller; Automatic Device Discovery, Batch Configuration, Batch Firmware Upgrading, Intelligent Network Monitoring, Abnormal Event Warnings, Unified Configuration; Reboot Schedule							
	Standalone Mode	GUI, FTP, TFTP, sFlow, SPAN, RSPAN, Cable Diagnostics							
	ZTP	√ (with Cloud-Based Controller)							
	Programmability	NETCONF							

*This feature is being developed and may vary then.

Omada Pro L2+ Managed Aggregation Switches

		24× GE & 10G Uplink	8× 10G SFP+	16× 10G SFP+	32× 10G SFP+
Product Picture					
Model		S5500-24F4XF	S5500-8XF	S5500-16XF	S5500-32XF
	GE SFP Slots	20	-	-	-
	GE RJ45/SFP Combo Ports	4	-	-	-
	10 GE SFP+ Slots	4	8	16	32
	Console	1× RJ45 + 1× Micro-USB			
	Power Supply	100-240 VAC, 50/60 GHz			
	Fan Quantity	1	-	1	2
	Dimensions (W × D × H)	17.3 × 8.7 × 1.7 in (440 × 220 × 44 mm)	17.3 × 7.1 × 1.7 in (440 × 180 × 44 mm)	17.3 × 8.7 × 1.7 in (440 × 220 × 44 mm)	17.3 × 13.0 × 1.7 in (440 × 330 × 44 mm)
	Redundant Power Supply	-	-	2× Internal Fixed Power Supply Modules	
	Installation	Rackmount			
	Operating Temperature	0°C to 45 °C (32 °F to 113 °F)	0°C to 50°C (32 °F to 122 °F)	0°C to 45 °C (32 °F to 113 °F)	
Performance	Switching Capacity (Gbps)	128	160	320	640
	Forwarding Rate (Mpps)	95.2	119.0	238.1	476.2
	MAC Address Table	16K	32K	32K	32K
	Packet Buffer	1.5MB	2MB	3MB	3MB
	Jumbo Frame	9KB			
L2+ Feature	Static Routing	√			
	DHCP Server/Relay	√			
	ARP Proxy	√			
L2 Features	IGMP Snooping	V1/V2/V3			
	STP/RSTP/MSTP	√			
	Loopback Detection	√			
	QinQ	√			
	VLAN	802.1Q/MAC/Protocol/Private/Voice VLAN			
	QoS	8 Queues, Port/802.1p/DSCP QoS			
	Rate Limit	√			
	Port Isolation	√			
	Port Mirroring	√			
	Link Aggregation	Static LAG / LACP			
	DHCP Snooping	√			
Security	Security Functions	DoS Defend, Access Control List, IP + MAC + PORT + VID Binding, Storm Control, Port Security, SSH & SSL, IP Source Guard, Dynamic ARP Inspection, IEEE 802.1X Authentication			
System Management	Controller Mode	Omada Pro Software Controller; Automatic Device Discovery; Batch Configuration; Batch Firmware Upgrading; Intelligent Network Monitoring; Abnormal Event Warnings; Unified Configuration; Reboot Schedule			
	Standalone Mode	√			

Omada Pro L2+ Managed Access Switches

		GE PoE+		GE PoE+ & 10G Uplink		2.5G PoE+ & 10G Uplink		10G PoE++ & 10G Uplink
Product Picture								
Model		S5500-24GP4F	S5500-48GP4F	S5500-24GP4XF	S5500-48GP4XF	S5500-8MHP2XF	S5500-24MPP4XF	S5500-4XHPP2XF
Hardware	GE RJ45 Ports	24	48	24	48	-	-	-
	2.5 GE RJ45 Ports	-	-	-	-	8	24	-
	GE SFP Slots	4	4	-	-	-	-	-
	10 GE RJ45 Ports	-	-	-	-	-	-	4
	10 GE SFP+ Slots	-	-	4	4	2	4	2
	Power Supply	100-240V AC, 50/60Hz						
	Fan Quantity	2	3	2	3	2	3	2
	Dimensions (W × D × H)	17.3 × 8.7 × 1.7 in (440 × 220 × 44 mm)	17.3 × 13.0 × 1.7 in (440 × 330 × 44 mm)			17.3 × 7.1 × 1.7 in (440×180×44 mm)	17.3 × 13.0 × 1.7 in (440 × 330 × 44 mm)	11.6×7.1×1.7 in (294×180×44 mm)
	Console	1× RJ45 + 1× Micro-USB						
	Installation	Rackmount						Rackmount / Desktop
	Operating Temperature	0 °C to 50 °C (32 °F to 122 °F)	0 °C to 40 °C (32 °F to 104 °F)	0 °C to 45 °C (32 °F to 113 °F)	0 °C to 40 °C (32 °F to 104 °F)	0 °C to 50 °C (32 °F to 122 °F)	0 °C to 40 °C (32 °F to 104 °F)	0 °C to 50 °C (32 °F to 122 °F)
PoE	PoE Standard	802.3af/at					802.3af/at/bt	
	PoE Port	24× PoE+	48× PoE+	24× PoE+	48× PoE+	8× PoE+	8× PoE++ 16× PoE+	4× PoE++
	PoE Power Budget	250 W	384 W		500 W	240 W	500 W	200 W
	PoE Auto Recovery	√						
Performance	Switching Capacity (Gbps)	56	104	128	176	80	200	120
	Forwarding Rate (Mpps)	41.7	77.4	95.2	130.9	59.5	148.8	89.3
	MAC Address Table	8 K	16K				32K	
	Jumbo Frame	9KB						
L2+ Feature	Static Routing	√						
	DHCP Server/Relay	√						
	ARP Proxy	√						
L2 Features	IGMP Snooping	V1/V2/V3						
	STP/RSTP/MSTP	√						
	Loopback Detection	√						
	QinQ	√						
	VLAN	802.1Q/MAC/Protocol/Voice VLAN						
	QoS	8 Queues, Port/802.1p/DSCP QoS						
	Rate Limit	√						
	Port Isolation	√						
	Port Mirroring	√						
	Link Aggregation	Static LAG / LACP						
	DHCP Snooping	√						
Security	Security Functions	DoS Defend, DHCP Filter, IPv6-MAC, Access Control List, IP-MAC-Port Binding, Storm Control, Port Security, SSHv1/SSHv2, IP Source Guard, Dynamic ARP Inspection, IEEE 802.1X Authentication						
System Management	Controller Mode	Omada Pro Software Controller; Automatic Device Discovery; Batch Configuration; Batch Firmware Upgrading; Intelligent Network Monitoring; Abnormal Event Warnings; Unified Configuration; Reboot Schedule						
	Standalone Mode	√						

Omada Pro Smart Switches

		8/10× GE (PoE+)			8× GE	16× GE (PoE+)	16× GE
Product Picture							
Model		S4500-8GP	S4500-8GP2F	S4500-8GHP2F	S4500-8G	S4500-16GP	S4500-16G2F
	GE RJ45 Ports	8	8	8	8	16	16
	GE SFP Slots	-	2	2	-	-	2
	Power Supply	External Power Adapter (Output: 53.5 V DC/ 1.31 A)		100-240V AC, 50/60Hz	12 V DC/1 A External Adapter or Obtain Power from PoE Source	External Power Adapter (Output: 53.5 V DC/ 2.43 A)	100-240V AC, 50/60Hz
	Fan Quantity	-	-	1	-	-	-
	Dimensions (W × D × H)	8.2 x 4.9 x 1.0 in (209 x 126 x 26mm)		11.6 x 7.1 x 1.7 in (294 x 180 x 44 mm)	8.2 × 4.9 × 1.0 in (209 × 126 × 26 mm)	11.3 × 4.4 × 1.0 in (286 × 111.7 × 25.4 mm)	17.3 × 7.1 × 1.7 in (440 × 180 × 44 mm)
	Installation	Desktop/Wall-Mounting		Rackmount/Desktop	Desktop/Wall-Mounting		Rackmount
	Operating Temperature	0–40 °C (32 °F to 104 °F)		0–50 °C (32 °F to 122 °F)	0–40 °C (32 °F to 104 °F)		0–50 °C (32 °F to 122 °F)
PoE	PoE Standard	802.3af/at			-	802.3af/at	-
	PoE Port	4, up to 30 W	8, up to 30 W		-	8, up to 30 W	-
	PoE Power Budget	62 W	61 W	150 W	-	120 W	-
Performance	Switching Capacity (Gbps)	16	20		16	32	36
	Forwarding Rate (Mpps)	11.90	14.88		11.90	23.81	26.78
	MAC Address Table	8K					
	Packet Buffer	4.1Mbit					
	Jumbo Frame	9KB					
L2+ Features	Static Routing	√					
	DHCP Server/ Relay	√					
	ARP Proxy	√					
L2 Features	IGMP Snooping	V1/V2/V3					
	STP/RSTP/MSTP	√					
	Loopback Detection	√					
	VLAN	802.1Q/MAC/Protocol/Voice VLAN					
	QoS	8 Queues, Port/802.1p/DSCP QoS					
	Rate Limit	√					
	Port Isolation	√					
	Port Mirroring	√					
	Link Aggregation	Static LAG / LACP					
	DHCP Snooping	√					
Security	Security Functions	DoS Defend, DHCP Filter, Access Control List, IP/IPv6-MAC Binding, Storm Control, Port Security, SSHv1/SSHv2, IP Source Guard, Dynamic ARP Inspection, IEEE 802.1X Authentication					
System Management	Controller Mode	Omada Pro Software Controller; Automatic Device Discovery; Batch Configuration; Batch Firmware Upgrading; Intelligent Network Monitoring; Abnormal Event Warnings; Unified Configuration; Reboot Schedule					
	Standalone Mode	√					

Omada Pro Routers

		4G+ Wi-Fi & LTE	1 G	10 G
Product Picture				
Model		G36W-4G	G36	G611
Hardware	Interface	1× GE SFP WAN/LAN, 1× GE RJ45 WAN, 4× GE RJ45 WAN/LAN	1× GE SFP WAN/LAN, 1× GE RJ45 WAN, 4× GE RJ45 WAN/LAN, 1× USB3.0 (Supports USB LTE dongle and USB storage)	1× 10 GE SFP+ WAN, 1× 10 GE SFP+ WAN/LAN, 1× GE SFP WAN/LAN, 8× GE RJ45 WAN/LAN, 2× USB3.0 (One supporting LTE backup), 1× RJ45 Console
	RPS (Redundant Power Supply)	-	-	√
	Processor	Dual-Core	Dual-Core	Quad-Core
	Wi-Fi	2.4 GHz: 574 Mbps 5 GHz: 2402 Mbps (HE160)	-	-
	LTE	4G+ Cat6 300Mbps (1× Nano SIM slot)	-	-
	Installation	Desktop/Wall Mount		Rackmount
Performance[◇]	Concurrent Sessions	150,000	150,000	2,300,000
	Static IP NAT Throughput (Upload / Download)	945.805 Mbps / 948.213 Mbps	945.3 Mbps / 940.5 Mbps	9445.82 Mbps / 9449.26 Mbps
	DHCP NAT Throughput (Upload / Download)	947.076 Mbps / 941.738 Mbps	939.6 Mbps / 940.9 Mbps	9426.83 Mbps / 9426.20 Mbps
	PPPoE NAT Throughput (Upload / Download)	942.097 Mbps / 941.146 Mbps	943.6 Mbps / 940.9 Mbps	9413.96 Mbps / 9102.01 Mbps
	L2TP NAT Throughput (Upload / Download)	888.597 Mbps / 890.259 Mbps	880.1 Mbps / 859.0 Mbps	9064.66 Mbps / 8587.57 Mbps
	PPTP NAT Throughput (Upload / Download)	894.355 Mbps / 897.613 Mbps	855.0 Mbps / 907.2 Mbps	8712.11 Mbps / 8505.61 Mbps
	64 Byte Packet Forwarding Rate (Upload / Download)	1453489 pps / 1453489 pps	1,453,489 pps / 1,453,488 pps	1080 Mbps / 1030 Mbps
	1,518 Byte Packet Forwarding Rate (Upload / Download)	81275 pps /81275 pps	81,279 pps / 81,275 pps	9970 Mbps / 9970 Mbps
	WireGuard VPN	352.8 Mbps	341.3 Mbps	1411 Mbps
	GRE	Unencrypted: 609.465 Mbps Encrypted: 302.841 Mbps	Unencrypted: 611.9 Mbps Encrypted: 325.0 Mbps	-
	IPSec VPN Throughput	ESP-SHA1-AES256: 688.182 Mbps ESP-SHA256-AES256: 687.987 Mbps ESP-SHA384-AES256: 694.106 Mbps ESP-SHA512-AES256: 660.576 Mbps	ESP-SHA1-AES256: 617.1 Mbps ESP-SHA256-AES256: 592.8 Mbps ESP-SHA384-AES256: 592.4 Mbps ESP-SHA512-AES256: 604.5 Mbps	ESP-SHA1-AES256: 3099.4 Mbps ESP-SHA256-AES256: 2928.4 Mbps ESP-SHA384-AES256: 2935.7 Mbps ESP-SHA512-AES256: 2878 Mbps
	WAN Connection Type	Static IP, Dynamic IP, PPPoE (supports MRU Configuration), PPTP, L2TP	Static IP, Dynamic IP, PPPoE (supports MRU Configuration), PPTP, L2TP, Mobile Broadband: 4G/3G modem for backup via USB port	Static/Dynamic IP, PPPoE, PPTP, L2TP, 6to4 Tunnel, IPv6 Pass-Through, Mobile Broadband: 4G/3G modem for backup via USB port
	Others	Multiple-Net DHCP, 802.1Q VLAN, IPTV, IPv6, Mac Clone, Stateful ACL, mDNS Repeater, Quality of Service, Bridge VLAN, DNS Queries*		
VPN	VPN	IPSec, PPTP, L2TP, L2TP over IPSec, OpenVPN, WireGuard, SSL, GRE**	IPSec, PPTP, L2TP, L2TP over IPSec, OpenVPN, WireGuard, SSL, GRE**	IPSec, PPTP, L2TP, L2TP over IPSec, OpenVPN, WireGuard, SSL
NAT	One-to-One NAT	√	√	√
	Multiple-Nets NAT	√	√	√
	Port Forwarding	√	√	√
	Port Triggering	√**	√**	√**
	ALG	√	√	√
Routing	Static Routing	√		
	Policy Routing	√		
	Centralized Cloud Management	√		
	SNMP	v1/v2c/v3		
	Others	RIP**, OSPF**	RIP**, OSPF**	-
Others	Advanced Features*	DPI, IDS/IPS, Intelligent Anomaly Detection, Remote Packet Capture, Gateway Online Detection		Intelligent Anomaly Detection, Remote Packet Capture, Gateway Online Detection

*These functions are supported only in Controller Mode.
**These functions are supported only in Standalone Mode.
◇Performance specifications are based on laboratory testing. Actual performance may not be guaranteed and will vary as a result of client limitations and environmental factors.

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