TP-Link Omada

The Smarter Cloud Solution for Business Networking

Hospitality | Education | Retail | Office | and More

Apr. 2020

Professional
Reliable
Secure

tp-link

CORPORATE PROFILE

Founded in 1996, TP-Link is a global provider of reliable networking devices and accessories, involved in all aspects of everyday life. The company is consistently ranked by analyst firm IDC as the No.1 provider of Wi-Fi devices,* supplying distribution to more than 170 countries and serving billions of people worldwide.

With a proven heritage of stability, performance, and value, TP-Link has created a portfolio of consumer and SMB networking products. Now, as the connected lifestyle continues to evolve, the company is expanding its business domain into Smart Home and IoT technologies in order to meet the demands of tomorrow.

TP-Link offers all kinds of business products for any situation, providing advanced indoor and outdoor, wireless and wired systems for service provider and enterprise customers. The business products of TP-Link include Omada SDN, Pharos Wireless Broadband, JetStream and LiteWave Switches, and SafeStream Business Routers—ideal for hospitality, education, retail, and more.

CONTENTS

TP-Link Solution's Strengths

TP-Link aims to provide a One-Stop Solution—professional, reliable, and secure.

Comprehensive Products for Any Situation

TP-Link solutions are especially designed for small and medium enterprise networks, like hospitality, education, retail, and more. In order to meet the demands for stable connections, quick deployment, centralized management, ease of use, and reasonable costs, TP-Link offers all kinds of business products for any situation, including indoor and outdoor access points, controllers, wireless broadband, switches, and routers.

A Global Reputation

TP-Link is consistently ranked as the No. 1 provider of Wi-Fi products for more than nine consecutive years, according to analyst firm IDC.* More than one billion wireless users choose TP-Link products to connect to the world.
For over 24 years, TP-Link has gained experience in network surveying, signal optimization, expanding complete Wi-Fi coverage, anti-interference design, network construction, and network deployment. Moreover, TP-Link's experienced technical support, reliable products, and powerful product warranty have earned the company a good reputation worldwide.

One-Stop Solution

TP-Link offers a one-stop solution: from preliminary surveys, product supply for any situation, network deployment, to technical support. 44 global subsidiaries of TP-Link provide fast technical support, product training, and marketing materials to the partners worldwide. Technology accumulation and extensive practical experience over the past 24 years make the TP-Link Business Solution Team faster, more efficient, and more professional than ever. TP-Link customizes solutions for customers after professional and detailed surveys, following the principle of "3H1F": High-tech, High practicality, High reliability, and Fast implementation.

Reliable Product Quality and Vertical Integration

1. Advanced Technology and Continual Innovation
Independent research and development enable TP-Link to master all core technology and react rapidly to changes in the market. Mesh, cloud access, Wi-Fi 6 products, and SDN have all been launched successfully.

2. Vertical Integration
TP-Link is one of the few major wireless networking companies that operate in-house manufacturing facilities to maintain standards of every component. The control over components and supply chain is a key competitive differentiator.

3. High-Level Manufacturing
The combination of supporting facilities ensures complete quality control and high-level manufacturing, benefiting steady supply, quality control, cost control, and fast delivery.

4. Complete Quality Control
TP-Link develops, builds, and crafts products from start to finish. A TP-Link product must pass rigorous tests and whole-process quality control to guarantee performance throughout the life of the product, including UES to ensure stability, ORT to ensure reliability, and Beta tests to ensure usability.

The TP-Link Solution
One-Stop Solution
Professional. Reliable. Secure.
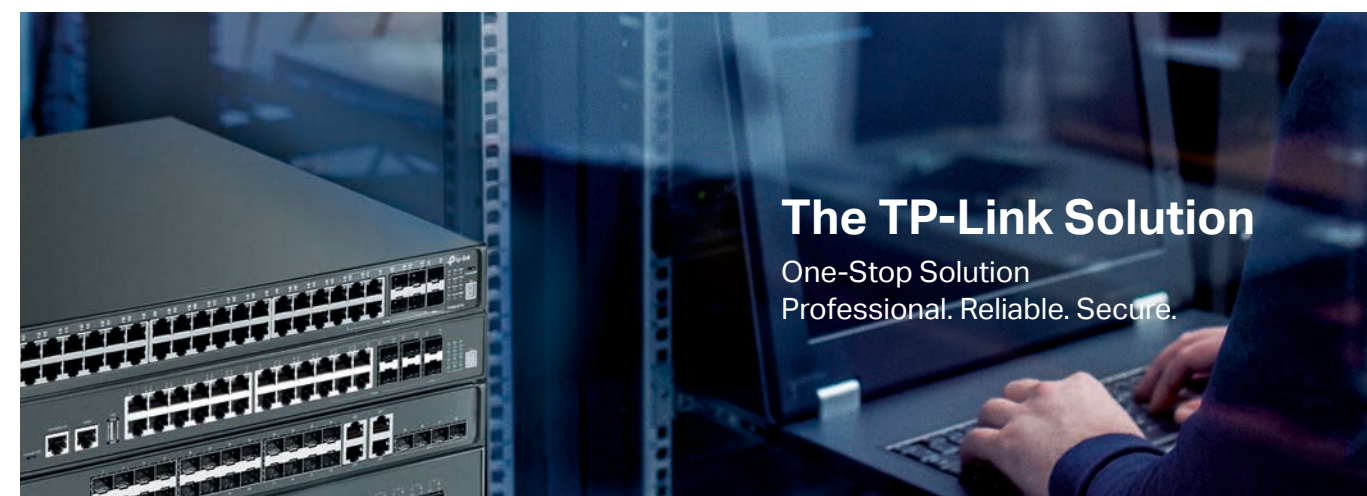
*According to the latest published IDC Worldwide Quarterly WLAN Tracker Report, Q1 2019 Final Release.

Omada—The Smarter Cloud Solution for Business Networking

Omada Software Defined Networking (SDN) platform integrates network devices including access points, switches and gateways, providing 100% centralized cloud management to create a highly scalable network—all controlled from a single interface. Seamless wireless and wired connections are provided, ideal for use in hospitality, education, retail, office, and more.
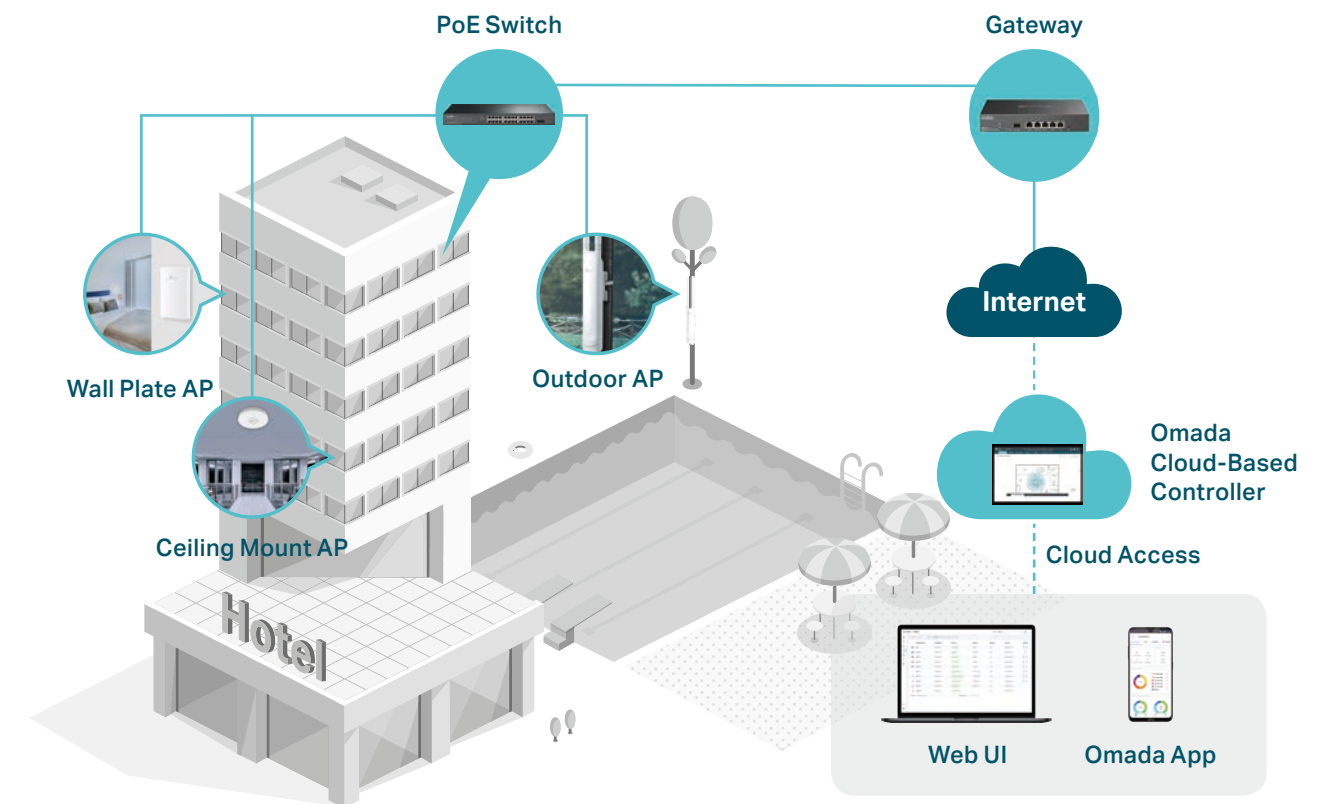
Software Defined Networking (SDN)

Omada is an SDN network with a controller as the core to realize automatic deployment of network services and automatic data distribution across gateways, switches, and access points.

**Higher Efficiency**   **Higher Security**   **Higher Reliability**

Higher Efficiency

No more delegating staff to endlessly configure and manage devices on every site—improve your network efficiency and reduce the overall cost of deployment, operation, and maintenance.

Hassle-Free Centralized Cloud Management

100% centralized cloud management of access points, switches, gateways, and more from different sites—all controlled from a single interface anywhere, anytime. Batch configuration and remotely firmware updates greatly benefit the maintenance.
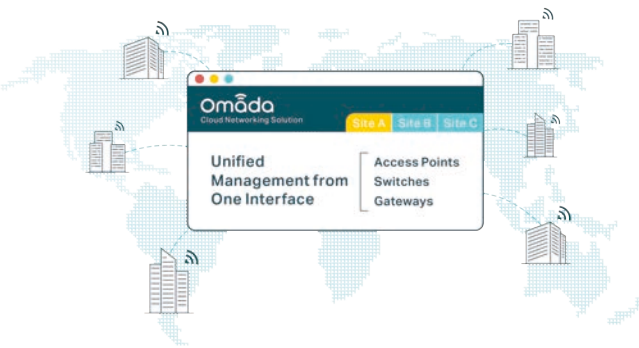
Zero-Touch Provisioning*

There' s no need to send out an engineer for on-site configuration with Omada Cloud, ensuring a more efficient deployment at a lower cost.
Omada zero-touch provisioning allows you to remotely deploy and configure multi-site networks.

## 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 and abnormal event warnings and notifications, or even track key data for better business results. Network topology helps IT admins quickly see and troubleshoot connections at a glance.

AI-Driven Technology for Stronger Performance and Easy Network Maintenance

Auto Channel Selection and Power Adjustment

Provide 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
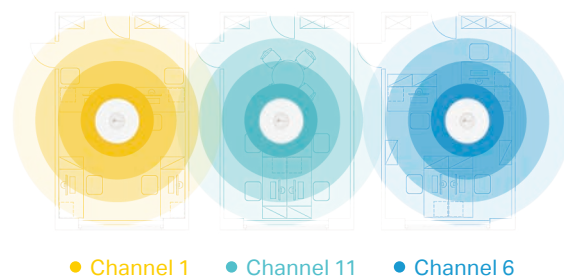
Intelligent Network Analysis, Warning, and Optimization**

Analyze potential network problems and receive optimization suggestions for higher network efficiency. Locate network faults, warn and notify users, and generate solutions for lower network risk.

Overall Network Status
*Warning*
Optimization

*Zero-Touch Provisioning requires the use of Omada Cloud-Based Controller
**Intelligent Network Analysis, Warning, and Optimization are being developed and are scheduled to be released in 2020

Higher Security

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 — SafeStream Gateway — JetStream Switch — Omada Access Point

Management Data
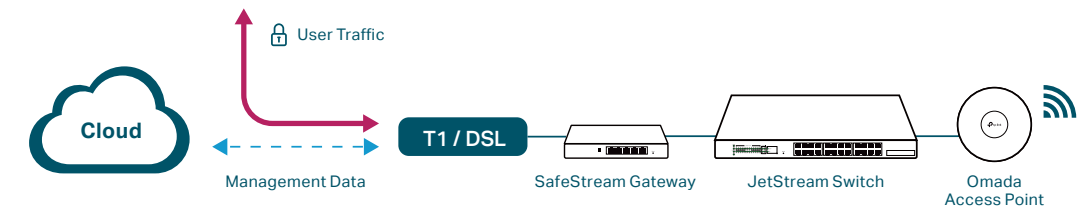
Abundant Security Functions

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

| VPN | Captive | WPA3 | Access | Traffic Statistics | IoT | Potential Risk | Malicious |
| High-Security VPN | Captive Portal | Advanced WPA3 Encryption | Access Control | Traffic Statistics Analysis* | IoT Protection* | Potential Risk Detection* | Malicious Site Blocker* |

Higher Reliability

Cloud services are guaranteed with 99.99% 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.

99.99%
SLA Availability

24/7
Automated Fault Detection

Higher Reliability

Geographically Isolated
Back-up Servers

Reliable Product
High Quality

Omada—Scenario-Based Design

TP-Link Omada is specially designed for hospitality, education, retail, office, and more. Scenario-based products and rich benefits satisfy different needs in various environments.

Hospitality
- Full Wi-Fi coverage and wired connections
- Flexible guest control
- Seamless roaming
- Easy Management

Education
- Easy management
- High-density Wi-Fi
- Full Wi-Fi coverage and wired connections
- VPN and security

Retail
- Boost online business
- Flexible guest control
- Seamless roaming
- High-concurrent clients

Office
- Stable Wi-Fi coverage and wired connections
- VPN
- High security
- Easy management
- Content filter and monitoring

*These functions are being developed and only supported by TL-ER7206 gateway.

Wi-Fi 6

Unprecedented User Experience in High-Density Scenarios

Wi-Fi 6 is designed to improve overall spectral efficiency, especially in the dense usage scenarios.

Blistering Speeds
Higher Level Modulation: 1024-QAM
4× Longer OFDM Symbol

Improved Efficiency
BSS Coloring*
OFDMA
MU-MIMO

Omāda Access Points

EAP265 HD
HD
AC1750 Wireless MU-MIMO Gigabit Ceiling Mount Access Point
1,300 Mbps + 450 Mbps

- High-Density Wi-Fi
- Centralized Management
- Cloud Access
- Mesh*
- Seamless Roaming
- PoE Support
- Long Range
- Guest Network

EAP245
AC1750 Wireless MU-MIMO Gigabit Ceiling Mount Access Point
• 1,300 Mbps + 450 Mbps

EAP225
AC1350 Wireless MU-MIMO Gigabit Ceiling Mount Access Point
• 867 Mbps + 450 Mbps

EAP115/EAP110
300 Mbps Wireless N Ceiling Mount Access Point

EAP660 HD Wi-Fi 6 2.5G 2.5GE PoE+ Ports
AX3600 Wireless Dual Band Multi-Gigabit Ceiling Mount Access Point

| 5 GHz | 4× 600 Mbps |
| 2.4 GHz | 4× 287 Mbps |

EAP620 HD Wi-Fi 6 1G 1GE PoE+ Ports
AX1800 Wireless Dual Band Ceiling Mount Access Point

| 5 GHz | 2× 600 Mbps |
| 2.4 GHz | 2× 287 Mbps |

- High-Density Connectivity
- Seamless Roaming
- Centralized Management
- Mesh*
- Guest Network
- PoE+ Support

## ❯ Wi-Fi 6 Access Points Improve Experiences in High-Density Environments

Omada Wi-Fi 6 access points optimize every detail of your network connection to significantly improve network efficiency and deliver blistering speeds. Buffering will no longer be a problem.

Blistering Speeds

#### Higher Level Modulation: 1024-QAM
25% faster than 256-QAM

With 1024-QAM, each symbol carries 10 bits rather than 8 bits, improving raw speeds by 25% compared with 802.11ac 256-QAM.

11ax 1024QAM

1.25x
speed improvement

11ac 256QAM
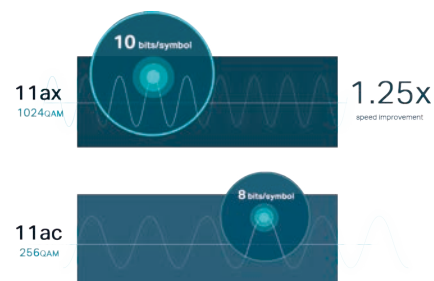
4× Longer OFDM Symbol
1.1× Faster Speed and Greater Stability

In 802.11ax, a 4× longer OFDM symbol and a longer GI are applied to generate 4× more subcarriers. Coverage grows, as does the proportion of data subcarriers, helping AX Wi-Fi to be 11% faster.

❯❯ 11ac : 256 Subcarriers in 3.6 μs (0.4 μs GI)
❯❯ 11ax : 1024 Subcarriers in 13.6 μs (0.8 μs GI)
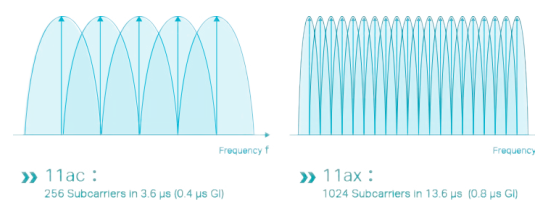
Improved Efficiency

BSS Coloring
Minimize Wi-Fi Conflicts with Your Neighbors

BSS (Basic Service Set) Coloring identifies and marks frames from neighboring networks and ignores them, as long as the existing frames are below a threshold of weakness, preventing unnecessary slowdown and minimizing Wi-Fi interference from the neighborhood to the most extent.

OFDMA
Fully Utilize Bandwidth to Improve Capacity

OFDMA divides the spectrum into Resource Units and allocates them to multiple different clients, if necessary. This allows multiple clients with varying bandwidth needs to be served simultaneously.

*These features can be supported by software updates.
Note: Please refer to page 29 for detailed products specifications

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EAP235-Wall
AC1200 Wireless MU-MIMO Gigabit Wall Plate Access Point

• 867 Mbps + 300 Mbps
• Centralized Management
• Cloud Access
• 4× Gigabit Ports
• Easy Installation
• PoE Input and PoE Passthrough
• Guest Network

EAP230-Wall
AC1200 Wireless MU-MIMO Gigabit Wall Plate Access Point
• 867 Mbps + 300 Mbps
• 2× Gigabit Ports

EAP115-Wall
300 Mbps Wireless N Wall Plate Access Point
• 2× 10/100 Mbps Ethernet Ports

EAP225-Outdoor
AC1200 Wireless MU-MIMO Gigabit Indoor/Outdoor Access Point

• 867 Mbps + 300 Mbps
• Centralized Management
• Cloud Access
• Mesh
• Seamless Roaming
• Long Range
• PoE Support
• Weatherproof Enclosure

EAP225-Wall
AC1200 Wireless MU-MIMO Wall Plate Access Point
• 867 Mbps + 300 Mbps
• 4× 10/100 Mbps Ethernet Ports

EAP110-Outdoor
300 Mbps Wireless N Outdoor Access Point

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

Long-Range Coverage
Dedicated high-power amplifier and professional antennas ensure long-range coverage over 2.4 GHz and 5 GHz wireless bands.

MU-MIMO
Simultaneously sends data to multiple devices for higher throughput.

Band Steering
Pushes dual-band devices to the wider and faster 5 GHz band, improving overall network performance, especially in high client density environments.

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

Guest Network
Provide secure Wi-Fi access along with multiple authentication options (SMS/Facebook Wi-Fi/Voucher, etc.) and abundant wireless security features.

Airtime Fairness
Improves total Wi-Fi throughput by limiting access time for low-speed devices.

Load Balance
Improves overall network performance by limiting the number of users on each access point and removes devices with weak reception.

*These features can be supported by software updates.
Note: Please refer to page 29 for detailed products specifications.

JetStream Switches by Omada SDN

TL-SG3210XHP-M2* `2.5G` `SFP+` `PoE`

8-Port 2.5GBSAE-T and 2-Port 10GE SFP+
L2+ Managed Switch with 8-Port PoE+

- 8× 2.5G RJ45 Ports
- 2× 10G SFP+ Slots
- 802.3af/at PoE+
- 250 W PoE Power Budget
- 8 PoE+ Ports
- Centralized Management
- Cloud Access
- Zero-Touch Provisioning

TL-SX3412* `10G` `SFP+`

4-Port 10Gigabit L2+ Managed Switch
with 8 10GE SFP+ Slots

- 4× 10G RJ45 Ports
- 8× 10G SFP+ Slots
- Centralized Management
- Cloud Access
- Zero-Touch Provisioning
- 802.1Q VLAN

TL-SG3452XMP* / TL-SG3428XMP* `PoE` `SFP+` `10G`

- 48 / 24× Gigabit PoE+ RJ45 Ports
- 4× 10G SFP+ Slots
- 802.3af/at PoE+
- 700 W / 400 W PoE Power Budget

TL-SG2428P / TL-SG2210MP `PoE` `SFP`

- 24 / 8× Gigabit PoE+ RJ45 Ports
- 4 / 2× Gigabit SFP Slots
- 802.3af/at PoE+
- 250 W /150 W PoE Power Budget

TL-SG2008P `PoE`

- 8× Gigabit PoE+ RJ45 Ports
- 802.3af/at PoE+
- 60 W PoE Power Budget

TL-SG3452X* `SFP+` `10G`

- 48× Gigabit RJ45 Ports
- 4× 10G SFP+ Slots

TL-SG2428 `SFP`

- 24× Gigabit RJ45 Ports
- 4× Gigabit SFP Slots

TL-SG2008

- 8× Gigabit RJ45 Ports
  (Including 1× 802.3af PD Port)

*These products are being developed and the pictures are design sketches for reference only, and the specifications may vary then.
Note: Please refer to page 31 for detailed products specifications.

SafeStream Gateways by Omada SDN

TL-ER7206
SafeStrem Gigabit Multi-WAN VPN Router

- 1× Gigabit SFP + 5× Gigabit RJ45 Ports
- 1 SFP WAN + 1 WAN + 2 WAN/LAN

TL-R605
SafeStream Gigabit Multi-WAN VPN Router

- 5× Gigabit RJ45 Ports
- 1 WAN + 3 WAN/LAN

Traffic Statistics Analysis*
Track the key data of customers for better business results.

Potential Risk Detection*
Prevent network attacks by assessing clients' network behavior and detecting risky devices.

High-Security VPN
Secures and encrypts internet private data communications through Ipsec/ OpenVPN/ PPTP/ L2TP VPN.

Malicious Site Blocker*
Block malicious sites to protect your network.

Device Identification*
Identify sensitive devices like IoT devices, and provide specific real-time protections.

Multiple WAN Ports
Load Balance and Link Backup with Multiple WAN ports satisfy various internet access requirements and enhance the network reliability.

*These functions are being developed and only supported by TL-ER7206.
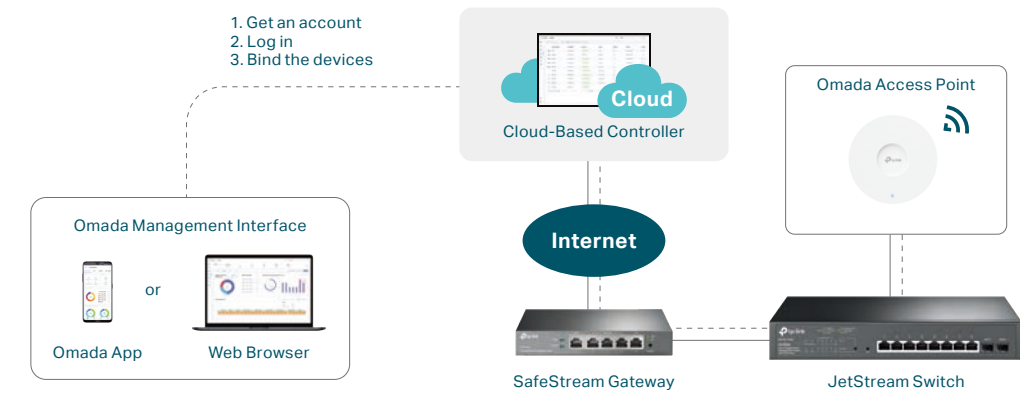Note: Please refer to page 31 for detailed products specifications.

Flexible Options for Cloud Control

Omada SDN provides two kinds of SDN controllers—Cloud-Based Controller (completely in the cloud) and Hybrid-Cloud Controller (on-premises) with full cloud access—giving you maximum flexibility and full control of the whole network from the cloud to fit your business needs.

❯ Cloud-Based Controller for Easier Deployment

With the cloud-based controller existing entirely in the cloud, Omada SDN offers zero-touch provisioning for efficient and affordable deployment and provides centralized management of the network wherever you are. Cloud services are guaranteed with 99.99% SLA availability and 24/7 automated fault detection. There is no additional hardware controller investment and installation on customer premises.

Cloud Access

1. Get an account
2. Log in
3. Bind the devices

Cloud-Based Controller
Cloud
Omada Access Point
Internet
Omada Management Interface
Omada App   Web Browser
SafeStream Gateway   JetStream Switch

❯ On-Premises Controller with Cloud Access

Omada offers cloud access to its on-premises centralized management platforms—Omada Software Controller or Omada Hardware Controller—to give you control of the whole network wherever you are through the Omada app or Web UI, without any additional service subscription fees.

Cloud Access

1. Associate to the server
Cloud Service
2. Log in
Cloud Access to Omada Controller
Omada Management Interface
Omada App   Web Browser
Internet
Omada Centralized Management Platform
Omada Hardware Controller OC200/ OC300
or
Omada Software Controller on PC/Server
SafeStream Gateway
JetStream Switch
Omada Access Point
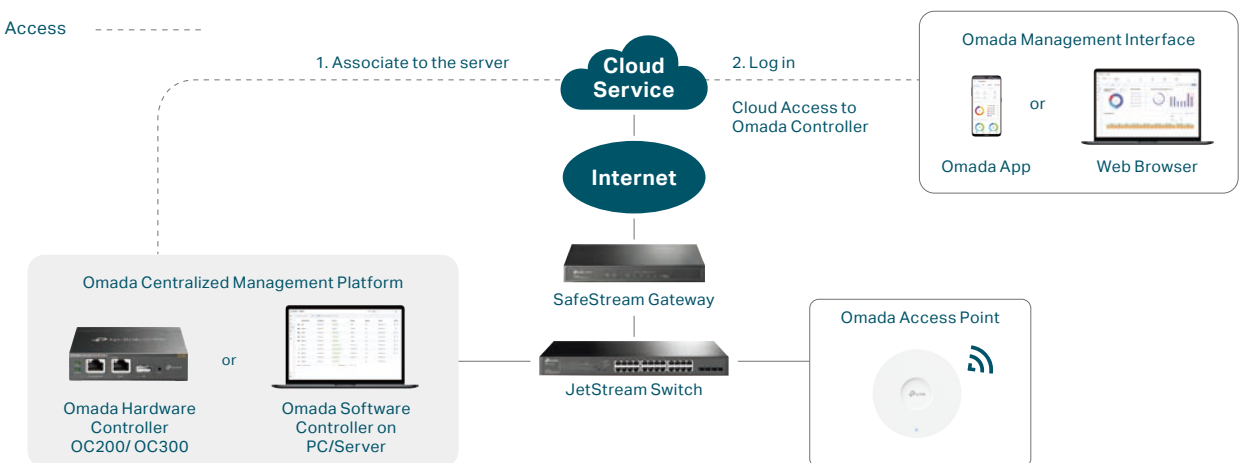
❯ Cloud Management with the Omada App

Follow the configuration instructions on the free Omada app to set up in minutes. Omada app lets you configure settings, monitor network status, and manage clients—all from your phone or tablet.

APs

Download on the App Store
GET IT ON Google Play
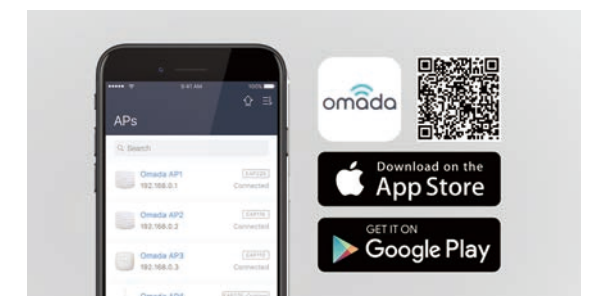
Note: Please refer to page 28 for detailed products specifications.

Industry Solutions

Hospitality Star Hotels | Budget Hotels | and More

- ✓ Full Wi-Fi coverage and wired connections
- ✓ Flexible guest control
- ✓ Seamless roaming
- ✓ Easy management

Wi-Fi is air. It's not an overstatement; it's reality. In any household, a strong, stable wireless network is simply an expectation. In fact, the ability to offer convenient connections makes a significant impact on overall customer satisfaction and ratings. Now, TP-Link Omada SDN allows hotels to build reliable, cost-effective networks that drive progress and keep guests happy and coming back for another stay.

❯ Overview

Typical Topology

- Fiber
- Ethernet
- Power over Ethernet

Cloud access

Internet

Gateway

JetStream Switch TL-SX3412

Machine Room

JetStream PoE Switch TL-SG2428P

JetStream PoE Switch TL-SG3210XHP-M2

Omada Hardware Controller OC200 / OC300

or

Omada Software Controller

Server

EAP660 HD
EAP660 HD
EAP620 HD
Ceiling Mount AP
Dining Hall, Restaurant, Meeting Room, Lobby, Parking

EAP235-Wall
EAP235-Wall
EAP230-Wall
Wall Plate AP
Guest Room

IP Camera
Surveillance

EAP225-Outdoor
Outdoor AP
Swimming Pool, Outdoor Parking

PC
Office

Benefits

Full Wireless Coverage
Ceiling mount, wall plate, and outdoor APs provide high-speed Wi-Fi for all indoor and outdoor places and scenarios.

Seamless Roaming for Uninterrupted Streaming
Ensure customers enjoy uninterrupted streaming when moving around by switching clients automatically to the access points with the optimal signal.

Stable Wired Connections
High-speed wired connections are provided with 2.5 G or 1 G Ethernet ports (802.3af/at PoE).

Boost Business with Flexible Captive Portal
Boost your online business through guest Wi-Fi with Facebook Login, Voucher, and other flexible authentication options.

*Omada Hardware Controller and Omada Software Controller can also be replaced with the Omada Cloud-Based Controller
**The solution for hotels with branches can be found on page 24

Easy Centralized Management
Centrally manage your access points, switches, gateways, and more—all controlled from a single easy-to-use interface. Batch configuration and remotely firmware updates greatly benefit the maintenance.

High-Density Wi-Fi Deployment
Omada Wi-Fi 6 and Wi-Fi 5 APs improve efficiency and ensure top-tier performance for restaurants and meeting rooms with high-density clients.

Remotely and Quickly Troubleshoot*
Remotely and quickly locate network faults, warn and notify users, and analyze potential network problems even when the IT manager is away with Omada's easy-to-use management interface and AI-Driven technology.

Easy Installation and Deployment
Easy mount construction; PoE support; and a refined, minimalist appearance allow for easy installation and deployment.

Product Recommendations

High-Performance Solutions

Products	Models	Deployment	Features
Switches	TL-SX3412	Machine room	4× 10 G RJ45 ports; 8× 10 G SFP+ slots
	TL-SG3210XHP-M2	Machine room	8× 2.5 G 802.3af/at PoE RJ45 ports; 2× 10 G SFP+ slots; 250 W PoE budget
	TL-SG3428XMP	Machine room	24× Gigabit 802.3af/at PoE RJ45 ports; 4× 10 G SFP+ slots; 400 W PoE budget
	TL-SG2428	Office area, meeting room	24× Gigabit RJ45 ports; 4× Gigabit SFP slots
Ceiling Mount APs	EAP660 HD	High-density environments (restaurant, meeting room)	Wi-Fi 6 (11AX) improves efficiency in high-density environments; Up to 3,600 Mbps Wi-Fi; 1× 2.5 G RJ45 port; Seamless roaming; Captive portal; Supports 802.3at PoE
	EAP245	Lobby, parking	Long-range indoor coverage; Dual-band 11AC Wi-Fi with speeds of up to 1,750 Mbps; Seamless roaming; Captive portal; Supports 802.3af and Passive PoE
Wall Plate APs	EAP235-Wall	Guest room	Full in-room Wi-Fi coverage; Dual-band 11AC Wi-Fi with speeds of up to 1,200 Mbps; Thin design; Captive portal; 4× Gigabit RJ45 ports; Supports 802.3af/at PoE input and PoE passthrough
	EAP230-Wall	Guest room	Full in-room Wi-Fi coverage; Dual-band 11AC Wi-Fi with speeds of up to 1,200 Mbps; Thin design; Captive portal; 2× Gigabit RJ45 ports; Supports 802.3af PoE input
Outdoor APs	EAP225-Outdoor	Swimming pool, outdoor parking	Long-range outdoor coverage; Dual-band 11AC Wi-Fi with speeds of up to 1,200 Mbps; 1× Gigabit RJ45 port; Supports 802.3af and Passive PoE; Mesh; Seamless roaming; IP65 weatherproof enclosure

Cost-Effective Solutions

Products	Models	Deployment	Features
Gateways	TL-ER7206	Machine room	5× GE RJ45 ports + 1× Gigabit SFP ports; Up to 4 WAN ports; Firewall; VPN; Device security detection and protection*; URL identification
	TL-R605	Machine room	5× GE RJ45 ports; Up to 4 WAN ports; Firewall; VPN
Switches	TL-SG3452X	Machine room	48× Gigabit RJ45 ports; 4× 10 G SFP+ Slots
	TL-SG2428P	Machine room	24× Gigabit 802.3af/at PoE RJ45 ports; 4× Gigabit SFP slots; 250 W PoE budget
	TL-SG2008	Office area, meeting room	8× Gigabit RJ45 ports
Ceiling Mount APs	EAP620 HD	High-density environments (restaurant, meeting room)	Wi-Fi 6 (11AX) improves efficiency in high-density environments; Up to 1,800 Mbps Wi-Fi; Seamless roaming; Captive portal; Supports 802.3at PoE
	EAP115	Lobby, parking	Long-range indoor coverage; 300 Mbps Wi-Fi; Captive portal; Supports 802.3af PoE
Wall Plate APs	EAP225-Wall	Guest room	Full in-room Wi-Fi coverage; Dual-band 11AC Wi-Fi with speeds of up to 1,200 Mbps; Thin design; Captive portal; 4× 10/100 Mbps ports; Supports 802.3af/at PoE input and PoE passthrough
	EAP115-Wall	Guest room	Full in-room Wi-Fi coverage; 300 Mbps Wi-Fi; Thin design; Captive portal; 2× 10/100 Mbps ports; Supports 802.3af PoE input
Outdoor APs	EAP110-Outdoor	Swimming pool, outdoor parking	Long-range outdoor coverage; 300 Mbps Wi-Fi; IP65 weatherproof enclosure; Supports Passive PoE

❯ Typical Cases

Name	Location	Capacity
Crown Plaza (5-star Hotel)	UAE	-
Patmos Aktis Suites & Spa (5-star Hotel)	Greece	56 Rooms
Barranquilla Plaza (5-star Hotel)	Colombia	176 Rooms
Hotel Istana (5-star Hotel)	Malaysia	23-Storey
Shangri-La (5-star Hotel)	China	Around 400 Rooms and Suites
Beijing Hotel Raffles (5-star Hotel)	China	All Areas (171 rooms and suites, lobby and restaurant)
Hangzhou Bay Hotel (5-star Hotel)	China	All Areas (18 storey, 300 rooms, meeting room, lobby and restaurant)
Mercure Hotel	Turkey	136 Rooms
Balsharaf Group	KSA	300+ Clients
Shuraa Facilities Management LLC	UAE	500 Clients

Name	Location	Capacity
Bin Majid Beach Resort	UAE	1,000+ Clients
Ilyas & Mustafa GALADARI GROUP	UAE	2,000+ Clients, 128 Rooms
Ramada Hotel & Suites	UAE	388 Rooms
1873 Equestrian Resort	Indian	11 villas
Hotel Complex, Izmailovo	Russia	-
Levante Aqua Sol Hotel	Greece	230 Rooms
Chateau de Khaoyai Hotel	Thailand	200+ Rooms, Gym, Swimming Pool, etc.
Hotel Villa Madruzzo	Italy	300+ Clients
Texas Budget Hotel chains	US	50 Rooms, 2-Story Hotel
Economy Hotel Mary	Colombia	75 Rooms
Al Hayat Hotel Apartments	UAE	85 Rooms, 10 Suites

*These functions are being developed and will be coming soon.

Hotels in Bukit Bintang

Scan for more info

Name: Hotels in Bukit Bintang
Location: Kuala Lumpur, Malaysia
Products: 1021× APs, 46× switches, 3× routers

Background

Bukit Bintang is known for Jalan Bukit Bintang, a busy thoroughfare with upscale malls and luxe fashion boutiques. Many hotels in this area have gradually adopted the Omada solution to provide stable Wi-Fi, ranging from budget inns to high-end hotels.

Solution

Hundreds of ceiling mount and wall plate access points, switches, and routers from TP-Link were selected to provide the wired and wireless networks. Ten hotels were selected to design an Omada Wi-Fi solution Map of Bukit Bintang. In these ten hotels, a total of 633× EAP115-Wall, 304× EAP225, 40× EAP330, 32× EAP320, and 12× EAP115 access points were installed to provide Wi-Fi. 39× T2600G-28MPS(TL-SG3424P), 2× TL-SG5412F, 2× T1600G-28PS(TL-SG2424P), 1× TL-SG1016PE, and 2× T2700G-28TQ switches were implemented to provide data and power for the access points. Additionally, 2× TL-ER6020 and 1× TL-ER5120 routers are used as gateways.

Business Results

Omada solutions provide stable Wi-Fi to empower Bukit Bintang hospitality. And the customers are definitely satisfied with the results.
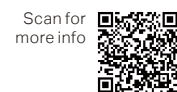
Testimonials

"The Omada Solution has empowered my business, customers from all over the world can now enjoy the free Wi-Fi, and I have no complaint since upgrading."
—Kenneth, owner of Anggune Boutique Hotel.

"We choose the TP-Link Omada solution for its extreme cost-efficiency and high stability, the whole solution simplified my work so much and increased our guests' overall experience."
—Chris, IT Manager of 5-star Hotel Istana

Mercure Hotel

Scan for more info

Name: Mercure Hotel
Capacity: 136 rooms
Location: Bursa, Turkey
**Products:** 150× EAP115

Testimonial

"It is a small giant by size! I could use all the features of the Enterprise-level products from TP-Link. The extensive setup options at the point of creating and publishing SSID & VLAN were very useful. If you need a strong wireless solution for your accommodation facilities, I believe TP-Link is the right solution with the best price-to-performance ratio and after-sales support."
—IT manager of Mercure Hotel

Patmos Aktis Suites & Spa

Scan for more info

Name: Patmos Aktis Suites & Spa (five-star hotel)
Capacity: 56 rooms and suites
Location: Patmos Island, Greece
Products: 23× EAP110, 17× EAP120, and 3× EAP220
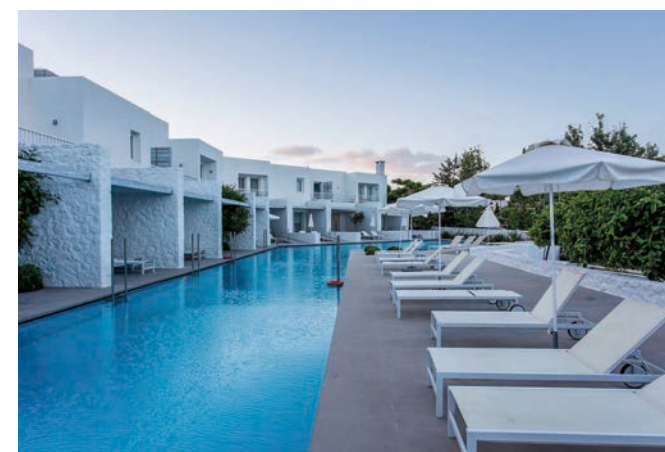
Testimonial

"TP-Link has helped us provide an outstanding customer experience with an affordable and easy-to-maintain system. The high-performance Wi-Fi provided the level of service that we need to keep our customers completely satisfied. I look forward to continued cooperation with TP-Link's professional team on future projects."

—Nikolaos Pouliou, Owner of Patmos Aktis Suites & Spa

| TP-Link Omada

Education Primary Education | Higher Education | Educational Institutions | and More
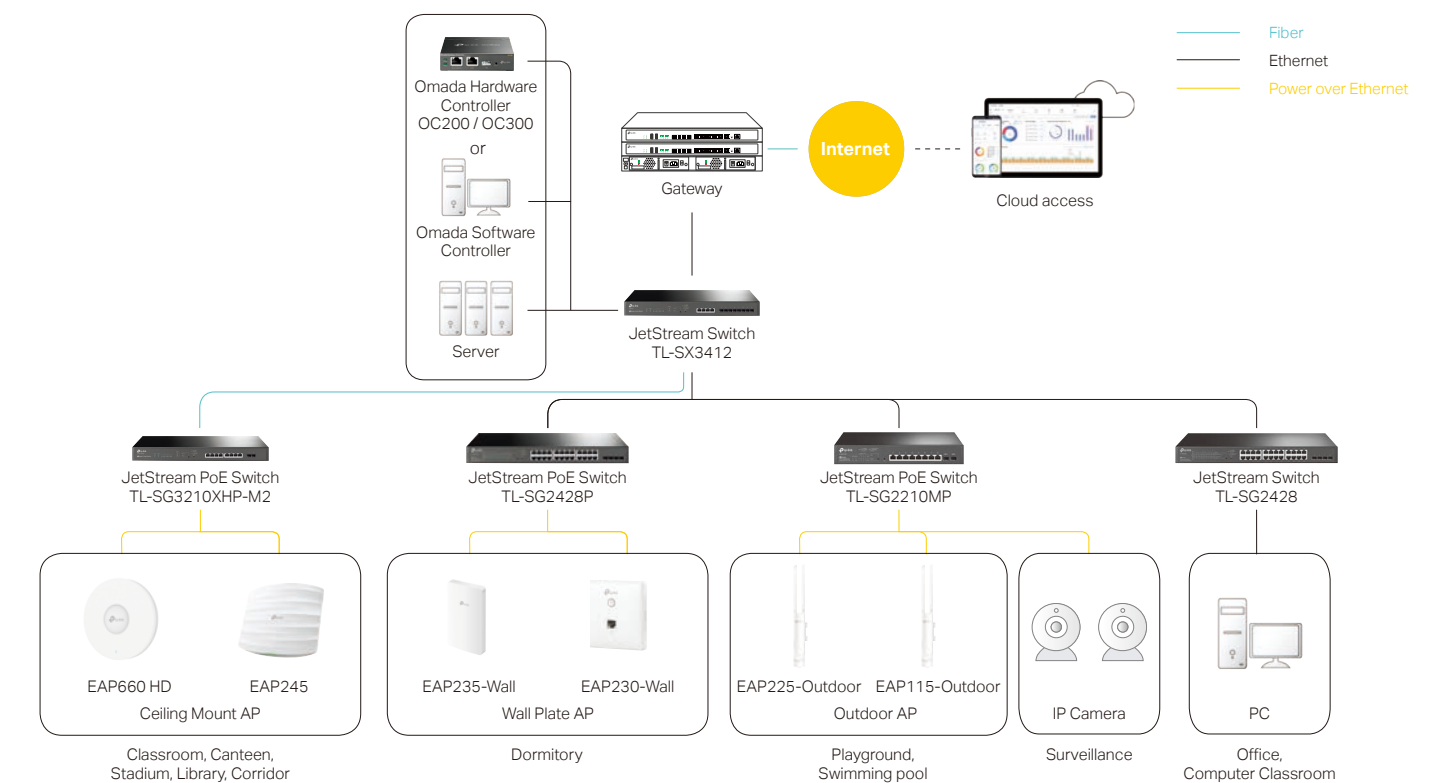
- ✓ Easy management
- ✓ High-density Wi-Fi
- ✓ Full Wi-Fi coverage and wired connections
- ✓ VPN and security

In modern educational institutions, wireless connectivity is as essential as a pen and paper. Reliable, secure, and convenient Wi-Fi provides students with unlimited access to information to enrich their education. It also allows teachers to access a wider variety of resources that promote more effective learning and development.
Due to its reliable, scalable, and secure network solution, TP-Link has been widely acknowledged by global customer in the Education market ranging from infant schools with a few APs up to colleges and universities with hundreds of APs.

❯ Overview
Typical Topology

Omada Hardware Controller OC200 / OC300
or
Omada Software Controller
Server

Gateway
Internet
Cloud access

Fiber
Ethernet
Power over Ethernet

JetStream Switch TL-SX3412

JetStream PoE Switch TL-SG3210XHP-M2
JetStream PoE Switch TL-SG2428P
JetStream PoE Switch TL-SG2210MP
JetStream Switch TL-SG2428

EAP660 HD   EAP245
Ceiling Mount AP
EAP235-Wall   EAP230-Wall
Wall Plate AP
EAP225-Outdoor   EAP115-Outdoor
Outdoor AP
IP Camera
PC

Classroom, Canteen, Stadium, Library, Corridor
Dormitory
Playground, Swimming pool
Surveillance
Office, Computer Classroom

Benefits

Easy Centralized Management
Centrally manage your access points, switches, gateways, and more, anywhere, anytime—all controlled from a single easy-to-use interface.

Full Wireless Coverage
Ceiling mount, wall plate, and outdoor APs provide high-speed Wi-Fi for indoor/ outdoor places and scenarios.

High-Density Wi-Fi Deployment
Omada Wi-Fi 6 and Wi-Fi 5 APs improve efficiency and ensure top-tier performance for classrooms, canteens, stadiums, and libraries with high-density clients.

Remotely and Quickly Troubleshoot*
Remotely and quickly locate network faults and analyze potential network problems with Omada's easy-to-use interface and AI-Driven technology.

Stable Wired Connections
High-speed wired connections are provided with 2.5 G or 1 G Ethernet ports (802.3af/at PoE).

Secure Network with Authentication
Provide secure Wi-Fi access to authorized users (students, teachers, etc.) with multiple authentications options (802.1X/Radius, etc.).

*Remotely and quickly troubleshooting is being developed and scheduled to be released in 2020.
**The solution for schools with branches can be found on page 24.
***Omada Hardware Controller and Omada Software Controller can also be replaced with the Omada Cloud-Based Controller.

TP-Link Omada | 12

Left column (icons and features)

Protects Your Network from Threats
Utilize powerful firewalls, device security detection and protection, URL identification and filter, and more advanced security functions.

Flexible Criteria Management
Use different SSIDs, Access Control, and VLAN binding technologies to identify key network user profiles to deploy customized operating criteria.

High-Security VPN
Allow students or teachers to visit the campus network even at home with a secure and enterprise-standard VPN.

Seamless Roaming for Uninterrupted Streaming
Ensure uninterrupted streaming when moving around by switching clients automatically to the access points with the optimal signal.

Product Recommendations

High-Performance Solutions

Products	Models	Deployment	Features
Switches	TL-SX3412	Machine room	**4× 10 G** RJ45 ports; **8× 10 G** SFP+ slots
	TL-SG3210XHP-M2	Machine room	**8× 2.5 G** 802.3af/at **PoE** RJ45 ports; **2× 10 G** SFP+ slots; 250 W PoE budget
	TL-SG3428XMP	Machine room	**24× Gigabit** 802.3af/at **PoE** RJ45 ports; **4× 10 G** SFP+ slots; 400 W PoE budget
	TL-SG3452X	Office area, computer classroom	**48× Gigabit** RJ45 ports; **4× 10 G** SFP+ slots
Ceiling Mount APs	**EAP660 HD**	High-density environments (classroom, canteen, stadium, library)	**Wi-Fi 6** (11AX) improves efficiency in **high-density environments;** Up to **3,600 Mbps** Wi-Fi; **1× 2.5 G** RJ45 port; Seamless roaming; Captive portal; Supports 802.3at PoE
	EAP245	Corridor, digital classroom, other indoor areas	Long-range indoor coverage; Dual-band 11AC Wi-Fi with speeds of up to **1,750 Mbps;** Seamless roaming; Captive portal; Supports 802.3af and Passive PoE
Wall Plate APs	**EAP235-Wall**	Dormitory	Full in-room Wi-Fi coverage; Dual-band 11AC Wi-Fi with speeds of up to **1,200 Mbps;** Thin design; Captive portal; **4× Gigabit** RJ45 ports; Supports 802.3af/at PoE input and PoE passthrough
	EAP230-Wall	Dormitory	Full in-room Wi-Fi coverage; Dual-band 11AC Wi-Fi with speed of up to **1,200 Mbps;** Thin design; Captive portal; **2× Gigabit** RJ45 ports; Supports 802.3af PoE input
Outdoor APs	EAP225-Outdoor	Playground, swimming pool	Long-range outdoor coverage; Dual-band 11AC Wi-Fi with speeds of up to **1,200 Mbps; 1× Gigabit** RJ45 port; Supports 802.3af and Passive PoE; **Mesh;** Seamless roaming; IP65 weatherproof enclosure

Cost-Effective Solutions

Products	Models	Deployment	Features
Gateways	**TL-ER7206**	Machine room	5× GE RJ45 ports + 1× Gigabit SFP ports; Up to 4 WAN ports; Firewall; VPN; **Device security detection and protection*; URL identification**
	TL-R605	Machine room	5× GE RJ45 ports; Up to 4 WAN ports; Firewall; VPN
Switches	TL-SG3452X	Machine room	**48× Gigabit** RJ45 Ports; **4× 10 G** SFP+ Slots
	TL-SG2428P	Machine room	**24× Gigabit** 802.3af/at **PoE** RJ45 ports; **4× Gigabit** SFP slots; 250 W PoE budget
	TL-SG2210MP	Machine room	**8× Gigabit** 802.3af/at **PoE** RJ45 ports; **2× Gigabit** SFP slots; 150 W PoE budget
	TL-SG2428	Office area, computer classroom	**24× Gigabit** RJ45 ports; **4× Gigabit** SFP slots
Ceiling Mount APs	**EAP620 HD**	High-density environments (classroom, canteen, stadium, library)	**Wi-Fi 6 (11AX)** improves efficiency in **high-density environments;** Up to **1,800 Mbps** Wi-Fi; Seamless roaming; Captive portal; Supports 802.3at PoE
	EAP265 HD		Dedicated Wi-Fi 5 (11AC) AP for **high-density environments;** Up to **1,750 Mbps** Wi-Fi; Seamless roaming; Captive portal; Supports 802.3af and Passive PoE
	EAP115	Corridor, digital classroom, other indoor areas	Long-range indoor coverage; 300 Mbps Wi-Fi; Captive portal; Supports 802.3af PoE
Wall Plate APs	**EAP225-Wall**	Dormitory	Full in-room Wi-Fi coverage; Dual-band 11AC Wi-Fi with speeds of up to **1,200 Mbps;** Thin design; Captive portal; **4× 10/100 Mbps ports;** Supports 802.3af/at PoE input and PoE passthrough
	EAP115-Wall	Dormitory	Full in-room Wi-Fi coverage; 300 Mbps Wi-Fi; Thin design; Captive portal; **2× 10/100 Mbps ports;** Supports 802.3af PoE input
Outdoor APs	EAP110-Outdoor	Playground, swimming pool	Long-range outdoor coverage; 300 Mbps Wi-Fi; IP65 weatherproof enclosure; Supports Passive PoE

❯ Typical Cases

Name	Location	Capacity
Habitat School	UAE	1,000 Clients
The King's Hospital School	Ireland	80-acre Campus, 300+ Students
Chase Grammar School	England	400+ Clients
Lytchett Minster School	England	14 individual buildings, 1,400+ students, 200 staff
Calasanz School	Colombia	1,290+ Students

Name	Location	Capacity
Carcavelos High School	Portugal	2,000 Daily Users
Air University	Pakistan	-
Sichuan University	China	All electronic classrooms of Jiangan Campus (300 acres), 10,000+ students
Army Military Medical University	China	Medical building
Tianli International School	China	Full wireless coverage (classrooms, dormitories, cafeterias, complexes)

*These functions are being developed and will be coming soon.

Right column

The King's Hospital School

Name: The King's Hospital School
Capacity: 80-acre campus, 300+ students
Location: Ireland
Products: AP: 70× EAP220; Switch: 1× Core Switch T3700G-28TQ, 3× PoE Switches T2600G-28MPS, 6× TL-SG2210P

Benefits
• **Flexible SSID Management**
The school uses different SSIDs to identify key network user profiles, including students, visitors, and teaching and admin staff, to deploy different operating criteria. The software controller makes it easy for them to customize the network to the school's specific requirements.
• **Student Security**
The school uses MAC binding so only pre-approved devices can connect to the network. Deploying MAC binding enables the school to monitor individual devices and filter content, adding an extra layer of security.

• **Outdoor Wi-Fi**
TP-Link's outdoor access points extend Wi-Fi to the outdoor spaces within the campus, providing the same level of seamless roaming as the indoor versions and can be configured and managed by the same software controller.

Habitat School

Name: Habitat School
Capacity: 1,000 Clients
Location: Ajman, UAE
Products: EAP330

Benefits
Habitat Ajman schools has fulfilled its objectives of ensuring that the technological literacy of their students of all levels is enabled by offering the best performance network that's reliable and secure for students and teachers. The TP-Link Omada solution provides the school district with the technology, performance, flexibility, and cost-effectiveness needed to ensure the goals of online education are not just met, but exceeded.

Retail Shopping Malls | Supermarkets | Department Stores | Shops | and More
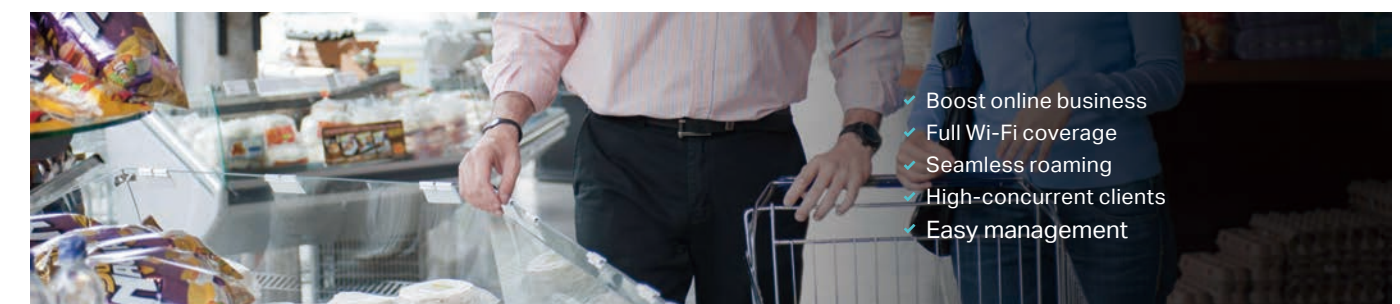
✓ Boost online business
✓ Full Wi-Fi coverage
✓ Seamless roaming
✓ High-concurrent clients
✓ Easy management

With the growing reliance on smartphones for everyday activities, Wi-Fi has the power to play an important role in the shopping experience. When a brick-and-mortar retailer offers free Wi-Fi, this incentivizes customers to extend their visit, providing the opportunities to explore, discover, and make a purchase. A good wireless network cannot only serve the network office system of the mall, but also bring a more comfortable shopping experience to customers. The TP-Link Omada SDN Solution empowers store owners to create a modern and compelling in-store experience for every customer.

❯ Overview

Typical Topology
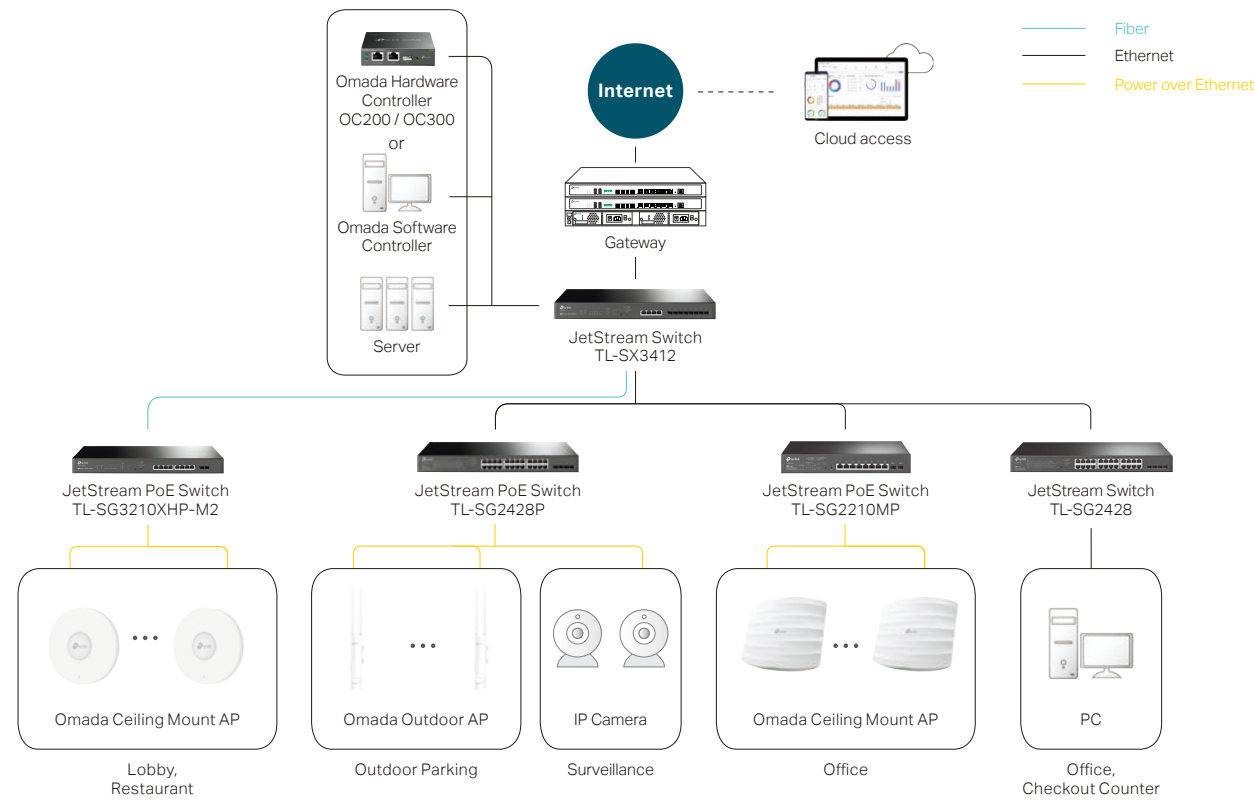
- — Fiber
- — Ethernet
- — Power over Ethernet

Omada Hardware Controller OC200 / OC300
or
Omada Software Controller
Server
Internet
Cloud access
Gateway
JetStream Switch TL-SX3412

JetStream PoE Switch TL-SG3210XHP-M2 — Omada Ceiling Mount AP — Lobby, Restaurant

JetStream PoE Switch TL-SG2428P — Omada Outdoor AP — Outdoor Parking — IP Camera — Surveillance

JetStream PoE Switch TL-SG2210MP — Omada Ceiling Mount AP — Office

JetStream Switch TL-SG2428 — PC — Office, Checkout Counter

Benefits

High-Density Wi-Fi Deployment
Omada Wi-Fi 6 and Wi-Fi 5 APs improve efficiency and ensure top-tier performance for shopping malls, supermarkets, and restaurants with high-density clients.

Seamless Roaming for Uninterrupted Streaming
Ensure customers enjoy uninterrupted streaming when moving around by switching clients automatically to the access points with the optimal signal.

Know Customers with Easy Network Monitoring
See the real-time network status or even track the key data of customers for better business results with an easy-to-use dashboard.

Stable High-Speed Wired Connections
2.5 G or 1 G Ethernet wired connections are provided for office computers and access points.

Boost Business with A Customized Page
Captive Portal provides direct exposure to promotional information and other marketing content while securing network access for guests.

Full Wireless Coverage
Ceiling mount and outdoor APs provide high-speed and long-range Wi-Fi coverage for all indoor and outdoor places and scenarios.

Easy Centralized Management
Centrally manage your access points, switches, gateways, and more, anywhere, anytime—all controlled from a single easy-to-use interface.

Easy Installation and Deployment
Easy mount construction; PoE support; and a refined, minimalist appearance.

Product Recommendations

High-Performance Solutions

Products	Models	Deployment	Features
Switches	TL-SX3412	Machine room	**4× 10 G** RJ45 ports; **8× 10 G** SFP+ slots
	TL-SG3210XHP-M2	Machine room	**8× 2.5 G** 802.3af/at **PoE** RJ45 ports; **2× 10 G** SFP+ slots; 250 W PoE budget
	TL-SG3428XMP	Machine room	**24× Gigabit** 802.3af/at **PoE** RJ45 ports; **4× 10 G** SFP+ slots; 400 W PoE budget
	TL-SG2428	Office area, checkout counter	**24× Gigabit** RJ45 ports; **4× Gigabit** SFP slots
Ceiling Mount APs	**EAP660 HD**	High-density environments (lobby, restaurant)	**Wi-Fi 6** (11AX) improves efficiency in **high-density environments;** Up to **3,600 Mbps** Wi-Fi; **1× 2.5 G** RJ45 port; Seamless roaming; Captive portal; Supports 802.3at PoE
	EAP245	Office area, other indoor areas	Long-range indoor coverage; Dual-band 11AC Wi-Fi with speeds of up to **1,750 Mbps;** Seamless roaming; Captive portal; Supports 802.3af and Passive PoE
Outdoor APs	EAP225-Outdoor	Outdoor parking	Long-range outdoor coverage; Dual-band 11AC Wi-Fi with speeds of up to **1,200 Mbps;** 1× Gigabit RJ45 port; Supports 802.3af and Passive PoE; **Mesh;** Seamless roaming; IP65 weatherproof enclosure

*The solution for retail with branches can be found on page 24
**Omada Hardware Controller and Omada Software Controller can also be replaced with the Omada Cloud-Based Controller.

Cost-Effective Solutions

Products	Models	Deployment	Features
Gateways	**TL-ER7206**	Machine room	5× GE RJ45 ports + 1× Gigabit SFP ports; Up to 4 WAN ports; Firewall; VPN; **Device security detection and protection***
	TL-R605	Machine room	5× GE RJ45 ports; Up to 4 WAN ports; Firewall; VPN
Switches	TL-SG3452X	Machine room	**48× Gigabit** RJ45 Ports; **4× 10 G** SFP+ Slots
	TL-SG2428P	Machine room	**24× Gigabit** 802.3af/at **PoE** RJ45 ports; **4× Gigabit** SFP slots; 250 W PoE budget
	TL-SG2210MP	Machine room	**8× Gigabit** 802.3af/at **PoE** RJ45 ports; **2× Gigabit** SFP slots; 150 W PoE budget
	TL-SG2008	Office area, checkout counter	**8× Gigabit** RJ45 ports
Ceiling Mount APs	**EAP620 HD**	High-density environments (lobby, restaurant)	**Wi-Fi 6 (11AX)** improves efficiency in **high-density environments;** Up to **1,800 Mbps** Wi-Fi; Seamless roaming; Captive portal; Supports 802.3at PoE
	EAP115	Office area, other indoor areas	Long-range indoor coverage; 300 Mbps Wi-Fi; Captive portal; Supports 802.3af PoE
Outdoor APs	EAP110-Outdoor	Outdoor parking	Long-range outdoor coverage; 300 Mbps Wi-Fi; IP65 weatherproof enclosure; Supports Passive PoE

❯ Typical Cases

Name	Location	Capacity
Sim Lim Square	Singapore	500+ Merchants, 10,000 Daily Visitors
Emirates CO-OP	UAE	1,000+ Users

Name	Location	Capacity
Changsha Bofu International Plaza	China	About 100,000 square meters
Wanxin Wuzhou Shopping Mall	China	150,000 square meters

Sim Lim Square

Scan for more info

Name: Sim Lim Square
(Singapore's largest IT and electronics shopping mall)
Capacity: 500+ merchants, 10,000 daily visitors, up to 1,000 shoppers at one time
Location: Singapore
Products: AP: 45× EAP220; Switch: Multiple PoE Switch TL-SG3424P

Benefits

- High-density Wi-Fi connections are provided to thousands of customers.
- PoE switches make installing ceiling-mounted APs easy and flexible.
- Seamless Wi-Fi coverage is available throughout the mall.
- Easy centralized management of the whole network with the free Omada Software Controller, even when lacking technical IT staff.

Testimonial

"Our customer satisfaction levels have been greatly improved since we started offering free public Wi-Fi throughout the entire mall. For that alone, the solution TP-Link provided was the best choice."
   —Sean Chia, Head of Advertising & Promotions, Sim Lim Square.

Catering Restaurants | Cafés | Internet Cafés | Bars | and More
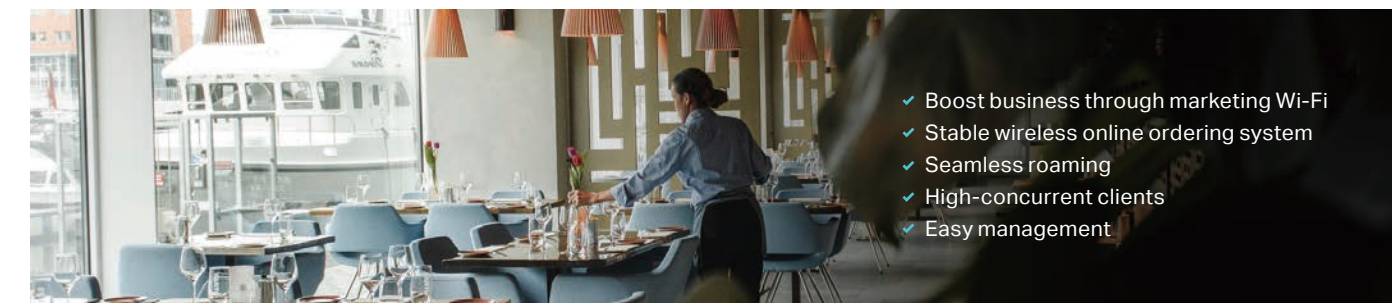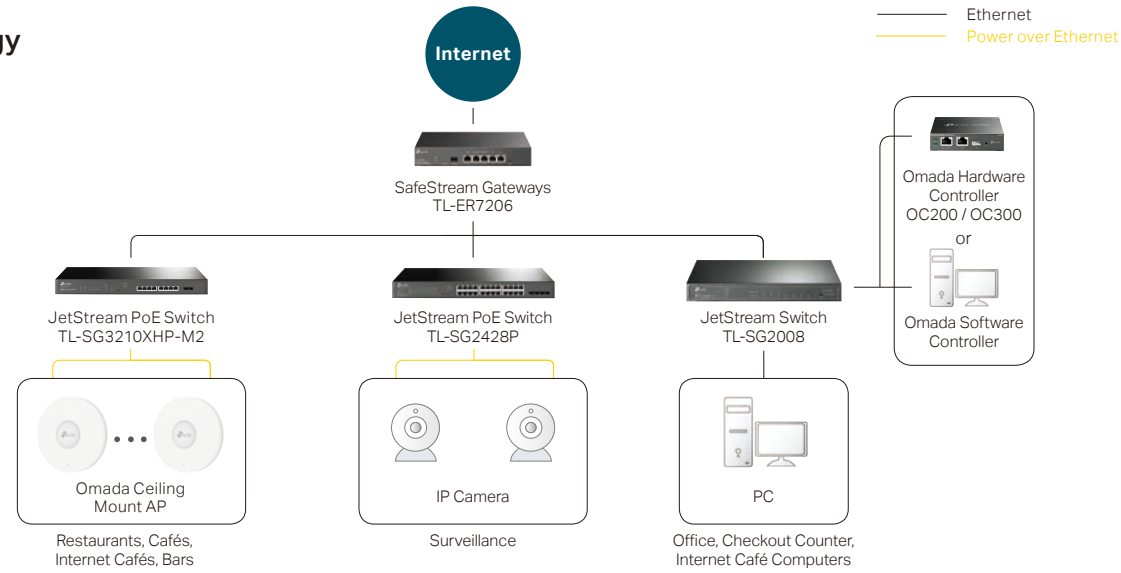

- ✓ Boost business through marketing Wi-Fi
- ✓ Stable wireless online ordering system
- ✓ Seamless roaming
- ✓ High-concurrent clients
- ✓ Easy management

In the era of smart mobile devices, Wi-Fi has become a necessity for restaurants and cafes everywhere. Customers want to check out the news and send messages to friends, even while dining or lounging with a latte. When customers share their experiences online, businesses can also benefit from sharing promotional content and enhancing social media profiles.
TP-Link Omada SDN solution empowers restaurant owners to create a modern and compelling in-store experience for every customer, all while gaining acknowledgment from catering markets around the world.

*These functions are being developed and will be coming soon.

Typical Topology

Ethernet
Power over Ethernet

Internet

SafeStream Gateways
TL-ER7206

Omada Hardware Controller
OC200 / OC300

or

Omada Software Controller

JetStream PoE Switch
TL-SG3210XHP-M2

JetStream PoE Switch
TL-SG2428P

JetStream Switch
TL-SG2008

Omada Ceiling Mount AP

IP Camera

PC

Restaurants, Cafés, Internet Cafés, Bars

Surveillance

Office, Checkout Counter, Internet Café Computers

Benefits

Boost Business with a Customized Page
Captive Portal provides direct exposure to promotional information and other marketing content while securing network access for guests.

High-Density Wi-Fi Deployment
Omada Wi-Fi 6 and Wi-Fi 5 APs improve efficiency and ensure top-tier performance for your restaurant and café with high-density clients.

Know Customers with Easy Network Monitoring
See the real-time network status, or even track the key data of customers for better business results with an easy-to-use dashboard.

Stable High-Speed Wired Connections
2.5 G or 1 G Ethernet wired connections are provided for office computers, internet café computers, front desks, access points, and IP cameras.

Stable Wi-Fi Coverage
Keeps your wireless online ordering system available everywhere with high-speed full Wi-Fi coverage.

Seamless Roaming for Uninterrupted Streaming
Ensure your customers enjoy uninterrupted streaming when moving around by switching clients automatically to the access points with the optimal signal.

Easy Centralized Management
Centrally manage your access points, switches, gateways, and more, anywhere, anytime—all controlled from a single easy-to-use interface.

Easy Installation and Deployment
Easy mount construction; PoE support; and a refined, minimalist appearance allow for easy installation and deployment.

Product Recommendations

High-Performance Solutions

Products	Models	Deployment	Features
Gateways	**TL-ER7206**	Machine room	5× GE RJ45 ports + 1× Gigabit SFP ports; Up to 4 WAN ports; Firewall; VPN; **Device security detection and protection***
Switches	**TL-SG3210XHP-M2**	Machine room	**8× 2.5 G** 802.3af/at **PoE** RJ45 ports; **2× 10 G** SFP+ slots; 250 W PoE budget
	TL-SG2428P	Machine room	**24× Gigabit** 802.3af/at **PoE** RJ45 ports; **4× Gigabit** SFP slots; 250 W PoE budget
	TL-SG3452X	Office area, checkout counter, internet café computers	**48× Gigabit** RJ45 ports; **4× 10 G** SFP+ slots
Ceiling Mount APs	**EAP660 HD**	High-density environments (lobby, restaurant, café)	**Wi-Fi 6** (11AX) improves efficiency in **high-density environments;** Up to **3,600 Mbps** Wi-Fi speed; **1× 2.5 G** RJ45 port; Seamless roaming; Captive portal; Supports 802.3at PoE
	EAP245	Other indoor areas	Long-range indoor coverage; Dual-band 11AC Wi-Fi with speeds of up to **1,750 Mbps;** Seamless roaming; Captive portal; Supports 802.3af and Passive PoE

Cost-Effective Solutions

Products	Models	Deployment	Features
Gateways	**TL-R605**	Machine room	5× GE RJ45 ports; Up to 4 WAN ports; Firewall; VPN
Switches	**TL-SG2428P**	Machine room	**24× Gigabit** 802.3af/at **PoE** RJ45 ports; **4× Gigabit** SFP slots; 250 W PoE budget
	TL-SG2008P	Machine room	**8× Gigabit** 802.3af/at **PoE** RJ45 ports; 150 W PoE budget
	TL-SG2008	Office area, meeting room	**8× Gigabit** RJ45 ports
Ceiling Mount APs	**EAP620 HD**	High-density environments (lobby, restaurant, café)	**Wi-Fi 6 (11AX)** improves efficiency in **high-density environments;** Up to **1,800 Mbps** Wi-Fi; Seamless roaming; Captive portal; Supports 802.3at PoE
	EAP115	Other indoor areas	Long-range indoor coverage; 300 Mbps Wi-Fi; Captive portal; Supports 802.3af PoE

*The solution for restaurant with branches can be found on page 24
**Omada Hardware Controller and Omada Software Controller can also be replaced with the Omada Cloud-Based Controller.
***These functions are being developed and will be coming soon.

Name	Location	Capacity
McDonald's	Ukraine	Multiple Restaurants
Tang Palace Restaurant	Dubai	600 Customers at Peak Time
Tim Hortons	KSA	15 Branches, 1000+ Clients,

Name	Location	Capacity
Tsui Wah Restaurant	Hong Kong, China	30 Restaurants
Texas Roadhouse Restaurant	USA	420 Restaurants

TSUI WAH Restaurant

Scan for more info

Name: Tsui Wah Restaurant (Chain Restaurant)
Capacity: 30 restaurants
Location: Hong Kong, China
Products: AP: 80× EAP220 (two or three EAP220 for each restaurant); Switch: 30× TL-SG1008P PoE Switches

Benefits
• A stable wireless food ordering system for customers in each restaurant is established.
• An array of features provide better stability and faster speeds.
• The wider and interference-free 5 GHz band is supported to improve Wi-Fi speed and stability.
• Rate limits help ensure a better overall Wi-Fi experience even during the busy dinnertime rush.
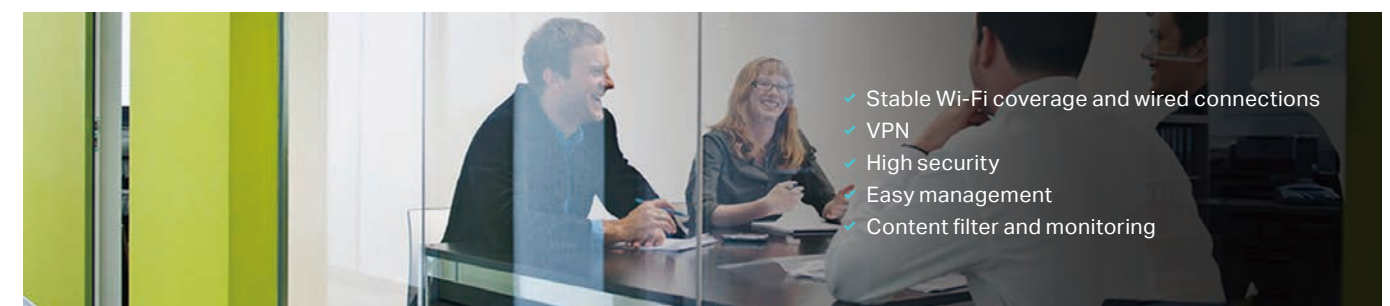• The Omada Software Controller with multi-site management is free of charge.

Testimonial
"TP-Link's solution provides the same Wi-Fi performance at a much better price, which works within our budget much better. TP-Link helps us provide much better Wi-Fi than before. This improves our service substantially and our reputation among customers."
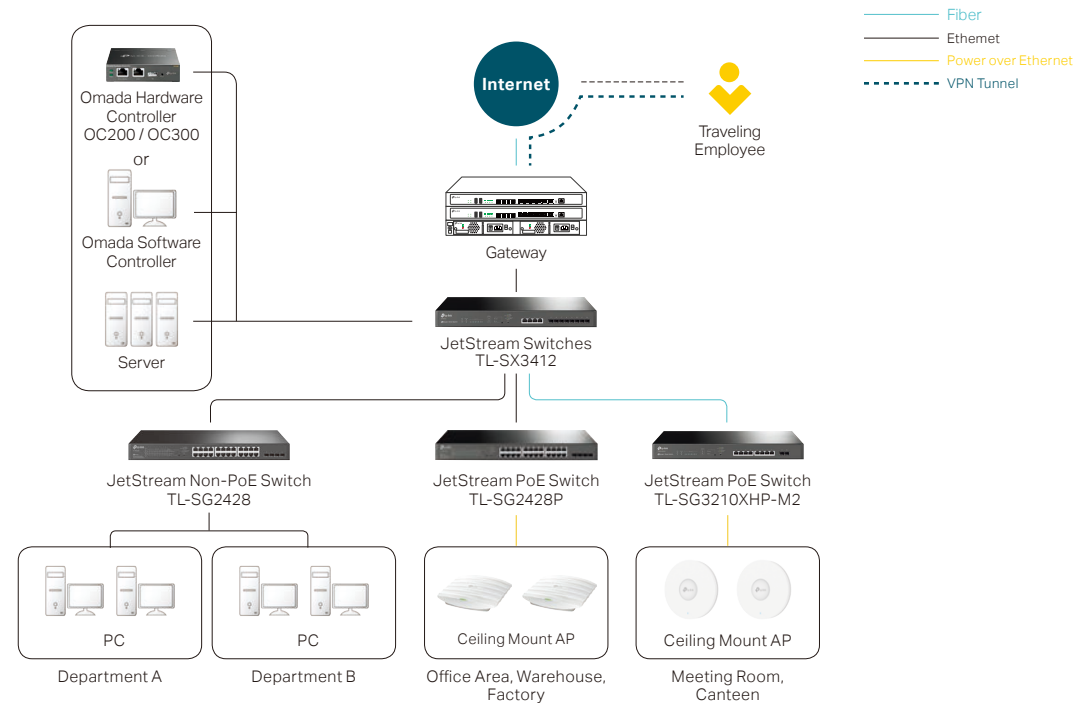   —Mr. Ben Leung, IT Engineer of the restaurant.

Tang Palace Restaurant

Scan for more info

Name: Tang Palace Restaurant
Capacity: 600 customers at peak time, 600+ square meters Wi-Fi coverage
Location: Dubai
Products: AP: 9× EAP220; Switch: 1× T1600G-28PS; Router: 1× TL-ER6120

Benefits
• Captive Portal with vouchers—Used as ads as well as authentication.
• Dual-band EAP220 provides connections for a large number of customers and prevents neighboring devices from interfering.
• The TP-Link solution offers the best value and cost-to-benefit ratio when compared to other brands.
• Reliable Wi-Fi connections made a measurable difference to customers' experience and led to an improvement in overall satisfaction.

Enterprise Office Buildings | Warehouses | Factories | and More

✓ Stable Wi-Fi coverage and wired connections
✓ VPN
✓ High security
✓ Easy management
✓ Content filter and monitoring

For small and medium-sized enterprises, a virtual private network (VPN) is a way for different branches to share resources and communicate with each other. It also provides a secure method by which employees can access internal network servers when out of the office. TP-Link Omada offers LAN-to-LAN and client-to-LAN VPN solutions to meet the requirements of today's enterprise networks.

❯ Overview

Typical Topology

Legend:
— Fiber
— Ethernet
— Power over Ethernet
-- VPN Tunnel

Omada Hardware Controller OC200 / OC300
or
Omada Software Controller
Server

Internet

Traveling Employee

Gateway

JetStream Switches TL-SX3412

JetStream Non-PoE Switch TL-SG2428 — PC (Department A), PC (Department B)
JetStream PoE Switch TL-SG2428P — Ceiling Mount AP (Office Area, Warehouse, Factory)
JetStream PoE Switch TL-SG3210XHP-M2 — Ceiling Mount AP (Meeting Room, Canteen)

Benefits

🏢 Stable Wired Connections
2.5 G or 1 G Ethernet wired connections are provided for office computers, front desks, access points, and IP cameras.

🔒 High-Security VPN
Allow the staff to visit the company network even at home, on a business trip, or at branches with a secure VPN (Ipsec/ OpenVPN/ PPTP/ L2TP).

✳ Flexible Criteria Management
Use different SSIDs, Access Control, and VLAN binding technologies to identify key network user profiles, including staff and visitors, to deploy customized operating criteria.

🔧 Quickly Troubleshoot to Stabilize Your Network**
Remotely and quickly locate network faults and analyze potential network problems with Omada's easy-to-use management interface and AI-Driven technology.

🜋 Content Filtering and Monitoring
Standardize employees' online behavior via URL identification and filtering, real-time network status monitoring, and traffic statistics analysis.

📶 Stable and High-Speed Wi-Fi
Ceiling mount APs provide stable and high-speed Wi-Fi for meeting rooms, office areas, warehouses, and factories.

🛡 Protects Your Network from Threats
Utilize powerful firewalls, device security detection and protection, IP-MAC-Port-VLAN Binding, URL filter, and more.

📋 Secure Guest Network with Captive Portal
Provide secure guest Wi-Fi access along with multiple authentication options (SMS/Facebook Wi-Fi/Voucher, etc.).

☁ Easy Centralized Management
Centrally manage your access points, switches, gateways, and more, anywhere, anytime—all controlled from a single easy-to-use interface.

PoE Easy Installation and Deployment
Easy mount construction; PoE support; and a refined, minimalist appearance allow for easy installation and deployment.

Product Recommendations

High-Performance Solutions

Products	Models	Deployment	Features
Switches	TL-SX3412	Machine room	**4× 10 G** RJ45 ports; **8× 10 G SFP**+ slots
	TL-SG3210XHP-M2	Machine room	**8× 2.5 G** 802.3af/at **PoE** RJ45 ports; **2× 10 G** SFP+ slots; 250 W PoE budget
	TL-SG2428P	Machine room	**24× Gigabit** 802.3af/at **PoE** RJ45 ports; **4× Gigabit** SFP slots; 250 W PoE budget
	TL-SG2428	Office area, meeting room	**24× Gigabit** RJ45 ports; **4× Gigabit** SFP slots
Ceiling Mount APs	**EAP660 HD**	High-density environments (canteen, meeting room)	**Wi-Fi 6 (11AX)** improves efficiency in **high-density environments;** Up to **3,600 Mbps** Wi-Fi; **1× 2.5 G** RJ45 port; Seamless roaming; Captive portal; Supports 802.3at PoE
	EAP245	Office area, warehouse, factory	Long-range indoor coverage; Dual-band 11AC Wi-Fi with speeds of up to **1,750 Mbps;** Seamless roaming; Captive portal; Supports 802.3af and Passive PoE

*The solution for company with branches can be found on page 24
**Quickly troubleshooting is being developed and scheduled to be released in 2020.
***Omada Hardware Controller and Omada Software Controller can also be replaced with the Omada Cloud-Based Controller.

Cost-Effective Solutions

Products	Models	Deployment	Features
Gateways	**TL-ER7206**	Machine room	5× GE RJ45 ports + 1× Gigabit SFP ports; Up to 4 WAN ports;Firewall; VPN; **Device security detection and protection**; URL identification**
	TL-R605	Machine room	5× GE RJ45 ports; Up to 4 WAN ports; Firewall; VPN
Switches	TL-SG3452X	Machine room	**48× Gigabit** RJ45 Ports; **4× 10 G** SFP+ Slots
	TL-SG2428P	Machine room	**24× Gigabit** 802.3af/at **PoE** RJ45 ports; **4× Gigabit** SFP slots; 250 W PoE budget
	TL-SG2008	Office area, meeting room	**8× Gigabit** RJ45 ports
Ceiling Mount APs	**EAP620 HD**	High-density environments (canteen, meeting room)	**Wi-Fi 6 (11AX)** improves efficiency in **high-density environments;** Up to **1,800 Mbps** Wi-Fi; Seamless roaming; Captive portal; Supports 802.3at PoE
	EAP115	Office area, warehouse, factory	Long-range indoor coverage; 300 Mbps Wi-Fi; Captive portal; Supports 802.3af PoE

❯ Typical Cases

Name	Location
Green Park	England
Peugeot & Citrëon	France
Gratte Brothers	England
TV Skyline	Germany

Name	Location
Shandong Ruyi Group	China
Gansu Jiantou Equipment Co., Ltd.	China
Guangzhou Ousiyi Cultural Development Co., Ltd.	China
Fujian Changfu Dairy Industry Group Co., Ltd.	China

Healthcare Hospitals | Clinics | Health Examination Agencies | and More

✓ Full Wi-Fi coverage and wired connections
✓ High security
✓ High stability
✓ Seamless roaming
✓ Easy management

With the increasing maturity and popularity of wireless LAN technology, the application of wireless LAN in the healthcare industry worldwide has become a trend. WLAN effectively overcomes the drawbacks of wired networks, enabling the use of tablet computers and mobile carts to collect vital signs, patient identification, etc. The TP-Link Omada SDN solution helps hospitals build comprehensive medical information systems and highlight the technical advantages of digital hospitals.

❯ Overview

Typical Topology

Legend:
— Fiber
— Ethernet
— Power over Ethernet

Omada Hardware Controller OC200 / OC300
or
Omada Software Controller
Server

Internet — Cloud access

Gateway

JetStream Switch TL-SX3412

JetStream PoE Switch TL-SG3210XHP-M2 — Omada Ceiling Mount AP (Lobby, Waiting Room, Meeting Room, Canteen, Corridor, Parking)
JetStream PoE Switch TL-SG2428P — Omada Outdoor AP (Outdoor Parking, Outdoor Area), IP Camera (Surveillance)
JetStream PoE Switch TL-SG2210MP — Omada Wall Plate AP (Ward, Consultation Room, Dormitory)
JetStream Switch TL-SG3452X — PC, Printer (Office, Medical Equipment, Consultation Room, Operating Room, Information Desk)

*Omada Hardware Controller and Omada Software Controller can also be replaced with the Omada Cloud-Based Controller.
**These functions are being developed and will be coming soon.

Benefits

Full Wi-Fi Coverage
Ceiling mount, wall plate, and outdoor APs provide high-speed Wi-Fi for all indoor and outdoor places and scenarios.

Protects Your Network from Threats
Utilize powerful firewalls, device security detection and protection, IP-MAC-Port-VLAN Binding, URL identification and filter, and more.

Flexible Criteria Management
Use different SSIDs, Access Control, and VLAN binding to identify network user profiles, including staff, visitors and patients, to deploy customized operating criteria.

Quickly Troubleshoot to Stabilize Your Network*
Remotely and quickly locate network faults and analyze potential network problems with Omada's easy-to-use management interface and AI-Driven technology.

High-Density Wi-Fi Deployment
Omada Wi-Fi 6 and Wi-Fi 5 APs improve efficiency and ensure top-tier performance for canteens and meeting rooms with high-density clients.

Stable Wired Connections
2.5 G or 1 G Ethernet wired connections are provided for the office computers, medical equipment, front desks, access points, and IP cameras.

Seamless Roaming for Uninterrupted Streaming
Ensure staff, patients, and guests enjoy uninterrupted streaming when moving around by switching clients automatically to the access points with the optimal signal.

Secure Guest Network with Captive Portal
Provide secure guest Wi-Fi access along with multiple authentication options (SMS/Facebook Wi-Fi/Voucher, etc.).

Easy Centralized Management
Centrally manage your access points, switches, gateways, and more, anywhere, anytime—all controlled from a single easy-to-use interface.

Easy Installation and Deployment
Easy mount construction; PoE support; and a refined, minimalist appearance allow for easy installation and deployment.

Product Recommendations

High-Performance Solutions

Products	Models	Deployment	Features
Switches	TL-SX3412	Machine room	4× 10 G RJ45 ports; 8× 10 G SFP+ slots
	TL-SG3210XHP-M2	Machine room	8× 2.5 G 802.3af/at PoE RJ45 ports; 2× 10 G SFP+ slots; 250 W PoE budget
	TL-SG3428XMP	Machine room	24× Gigabit 802.3af/at PoE RJ45 ports; 4× 10 G SFP+ slots; 400 W PoE budget
	TL-SG3452X	Office computer, front desk, medical equipment	48× Gigabit RJ45 ports; 4× 10 G SFP+ slots
Ceiling Mount APs	EAP660 HD	High-density environments (canteen, meeting room)	Wi-Fi 6 (11AX) improves efficiency in high-density environments; Up to 3,600 Mbps Wi-Fi; 1× 2.5 G RJ45 port; Seamless roaming; Captive portal; Supports 802.3at PoE
	EAP245	Lobby, waiting room, corridor, parking	Long-range indoor coverage; Dual-band 11AC Wi-Fi with speeds of up to 1,750 Mbps; Seamless roaming; Captive portal; Supports 802.3af and Passive PoE
Wall Plate APs	EAP235-Wall	Ward, consultation room, dormitory	Full in-room Wi-Fi coverage; Dual-band 11AC Wi-Fi with speeds of up to 1,200 Mbps; Thin design; Captive portal; 4× Gigabit RJ45 ports for wired connections; Supports 802.3af/at PoE input and PoE passthrough
	EAP230-Wall		Full in-room Wi-Fi coverage; Dual-band 11AC Wi-Fi with speeds of up to 1,200 Mbps; Thin design; Captive portal; 2× Gigabit RJ45 ports for wired connections; Supports 802.3af PoE input
Outdoor APs	EAP225-Outdoor	Outdoor parking, outdoor area	Long-range outdoor coverage; Dual-band 11AC Wi-Fi with speeds of up to 1,200 Mbps; 1× Gigabit RJ45 port; Supports 802.3af and Passive PoE; Mesh; Seamless roaming; IP65 weatherproof enclosure

Cost-Effective Solutions

Products	Models	Deployment	Features
Gateways	TL-ER7206	Machine room	5× GE RJ45 ports + 1× Gigabit SFP ports; Up to 4 WAN ports; Firewall; VPN; Device security detection and protection*; URL identification
	TL-R605	Machine room	5× GE RJ45 ports; Up to 4 WAN ports; Firewall; VPN
Switches	TL-SG3452X	Machine room	48× Gigabit RJ45 Ports; 4× 10 G SFP+ Slots
	TL-SG2428P	Machine room	24× Gigabit 802.3af/at PoE RJ45 ports; 4× Gigabit SFP slots; 250 W PoE budget
	TL-SG2428	Office computer, front desk, medical equipment	24× Gigabit RJ45 ports; 4× Gigabit SFP slots

*These functions are being developed and will be coming soon.

Products	Models	Deployment	Features
Ceiling Mount APs	EAP620 HD	High-density environments (canteen, meeting room)	Wi-Fi 6 (11AX) improves efficiency in high-density environments; Up to 1,800 Mbps Wi-Fi; Seamless roaming; Captive portal; Supports 802.3at PoE
	EAP265 HD		Dedicated Wi-Fi 5 (11AC) AP for high-density environments; Up to 1,750 Mbps Wi-Fi; Seamless roaming; Captive portal; Supports 802.3af and Passive PoE
	EAP115	Lobby, waiting room, corridor, parking	Long-range indoor coverage; 300 Mbps Wi-Fi; Captive portal; Supports 802.3af PoE
Wall Plate APs	EAP225-Wall	Ward, consultation room, dormitory	Full in-room Wi-Fi coverage; Dual-band 11AC Wi-Fi with speeds of up to 1,200 Mbps; Thin design; Captive portal; 4× 10/100 Mbps ports for wired connections; Supports 802.3af/at PoE input and PoE passthrough
	EAP115-Wall		Full in-room Wi-Fi coverage; 300 Mbps Wi-Fi; Thin design; Captive portal; 2× 10/100 Mbps ports for wired connections; Supports 802.3af PoE input
Outdoor APs	EAP110-Outdoor	Outdoor parking, outdoor area	Long-range outdoor coverage; 300 Mbps Wi-Fi; IP65 weatherproof enclosure; Supports Passive PoE

❯ Typical Cases

Name	Location	Capacity
Family Care Hospital	KSA	8 Floors, 500 Staff and Average 300 Patient Visits
Regional Hospital No.1	Russia	-
The Diabetes Centre, Inc. (TDC)	Pakistan	-

Name	Location	Capacity
Dalian Children's Hospital	China	Over 30,000 square feet
Zhoukou Union Orthopaedics Hospital	China	Over 35,000 square feet

Family Care Hospital

Scan for more info

Name: Family Care Hospital
Capacity: 8 floors
Location: Riyadh, KSA
Products: AP: 43× EAP245 (the first two floors)

Benefits
• Excellent Wi-Fi signal at basement, office corridor, conference room, and everywhere else.
• The 802.11ac Wi-Fi, combined with advanced 3×3 MIMO technology, ensures superior Wi-Fi speeds and coverage over the 2.4 GHz and 5 GHz wireless bands.
• Each EAP245 supports around 80 clients, making it highly cost-effective.

• The Omada Software Controller makes it easy for centralized management to manage and monitor hundreds of EAPs from a single location. It's also easy easy to set captive portal.
• The low-profile design, easy-mount chassis, and PoE support make deployment flexible, easily blending in with interior décor.

Transportation Railway Stations | Airports | Bus Stations | Subway Stations | and More
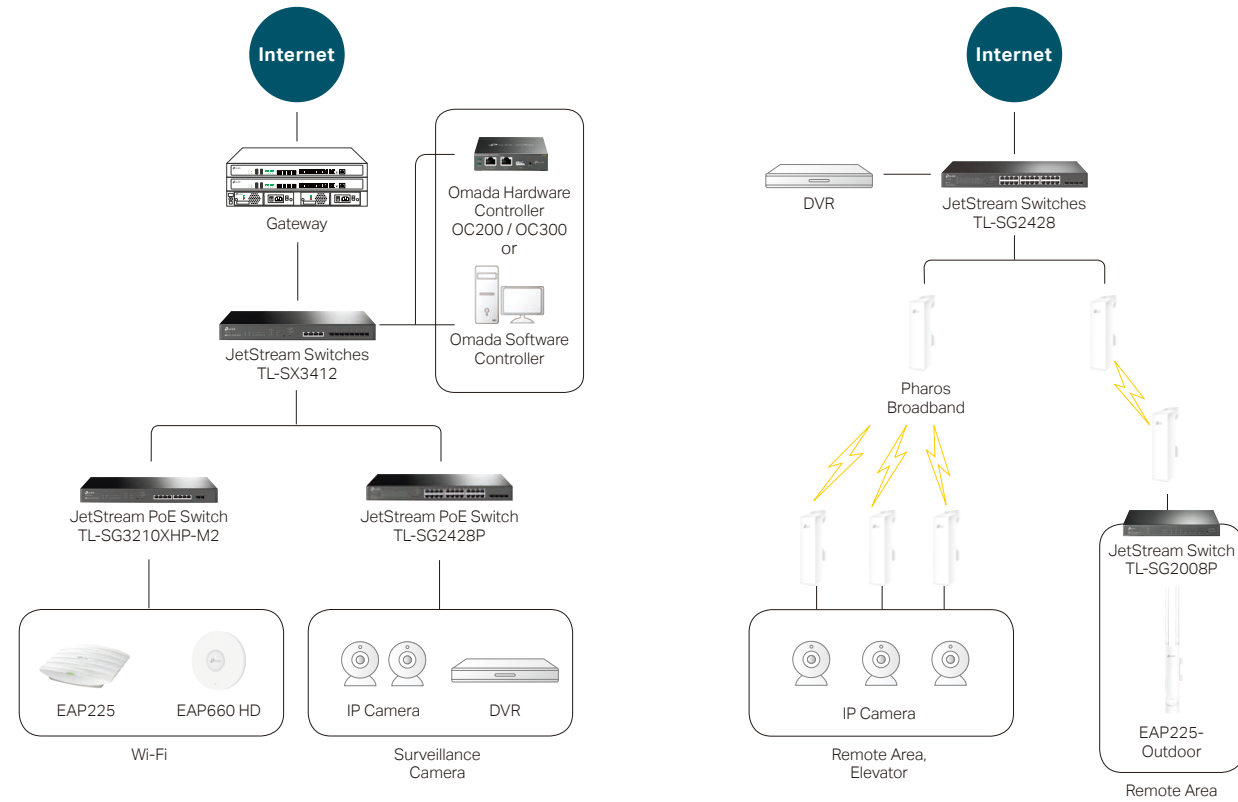
✓ Full Wi-Fi coverage in large open space
✓ Seamless roaming
✓ High-concurrent clients
✓ Easy deployment in indoor and outdoor areas
✓ High network security in public area

Railways, subways, airplanes, and other transportation systems have drawn an increasing interest on the use of wireless communications for critical and noncritical services to improve performance, reliability, and passenger experience. Such places provide internet to passengers not merely as a value added service but as an essential amenity.
TP-Link Omada offers full Wi-Fi coverage in these large open spaces to meet the needs of high-concurrent passengers.

❯ Overview
Typical Topology

Indoor Wi-Fi Coverage and Surveillance

Internet
- Gateway
- Omada Hardware Controller OC200 / OC300 or Omada Software Controller
- JetStream Switches TL-SX3412
- JetStream PoE Switch TL-SG3210XHP-M2
- JetStream PoE Switch TL-SG2428P
- EAP225 / EAP660 HD — Wi-Fi
- IP Camera / DVR — Surveillance Camera

Outdoor Long-Distance and Elevator Wi-Fi Coverage and Surveillance

Internet
- DVR
- JetStream Switches TL-SG2428
- Pharos Broadband
- IP Camera — Remote Area, Elevator
- JetStream Switch TL-SG2008P
- EAP225-Outdoor — Remote Area

Benefits

🛜 **Full Wi-Fi Coverage in Large Open Spaces**
Ceiling mount APs, along with Pharos broadband, provide stable and high-speed Wi-Fi for railway stations, airports, bus stations, and subway stations.

📇 **Secure Guest Network with Captive Portal**
Provide secure guest Wi-Fi access along with multiple authentication options (SMS/Facebook Wi-Fi/Voucher, etc.).

☁ **Easy Centralized Management**
Centrally manage your access points, switches, gateways, and more, anywhere, anytime—all controlled from a single easy-to-use interface.

PoE **Easy Installation and Deployment**
Easy mount construction, PoE support, Mesh technology, and long-range transmissions from Pharos broadband allow for easy installation and deployment, even in remote indoor and outdoor areas.

✳ **High-Density Wi-Fi Deployment**
Omada Wi-Fi 6 and Wi-Fi 5 APs improve efficiency and ensure top-tier performance for high-density passengers.

🛜 **Seamless Roaming for Uninterrupted Streaming**
Ensure passengers enjoy uninterrupted streaming when moving around by switching clients automatically to the access points with the optimal signal.

⚙ **Near and Remote Network Connections**
PoE switches and Pharos broadband provide short to long distance network connections for access points and surveillance cameras.

🛡 **Protects Your Network from Threats**
Utilize powerful firewalls, device security detection and protection, IP-MAC-Port-VLAN Binding, URL identification and filter, WPA3, and more advanced security functions.

❯ Typical Cases

Name	Location
Russian Railway	Russia
Shenzhen Airport T4 Terminal (Construction Site)	China

Name	Location
Changchun West Railway Station (Massage Chairs Program)	China
China Railway Shanghai Engineering Bureau	China

*Omada Hardware Controller and Omada Software Controller can also be replaced with the Omada Cloud-Based Controller.

Transportation — Russian Railway

Name: Russian Railway
Capacity: Trains all over Russia
Location: Russia
Products: AP: 10K× EAP225 (3× EAP225 for Each Carriage);
Switch: Two Switches T3700G-28TQ for Each "Trunk Connection"

Benefits
• With a capacity of around 60-80 clients for each AP, EAP225 provides reliable Wi-Fi for passengers even in rush hour.
• The four Gigabit SFP slots and the four 10 Gigabit SFP slots of the two T3700G-28TQ ensure high-speed and reliable data transmissions.
• Customized functions such as management VLAN, SNMP monitoring mode, and CLI interface ensure secure management.

Business Results
Russian Railways has expressed satisfaction with the performance and quality of their Wi-Fi network. They will consider TP-Link as a partner for future projects, such as the installation of wireless networks in their stations.

HQ and Branch Locations
Hotel Chains | Retail Chains | Restaurant Chains | Company Branches | University Branches | School Branches | and More
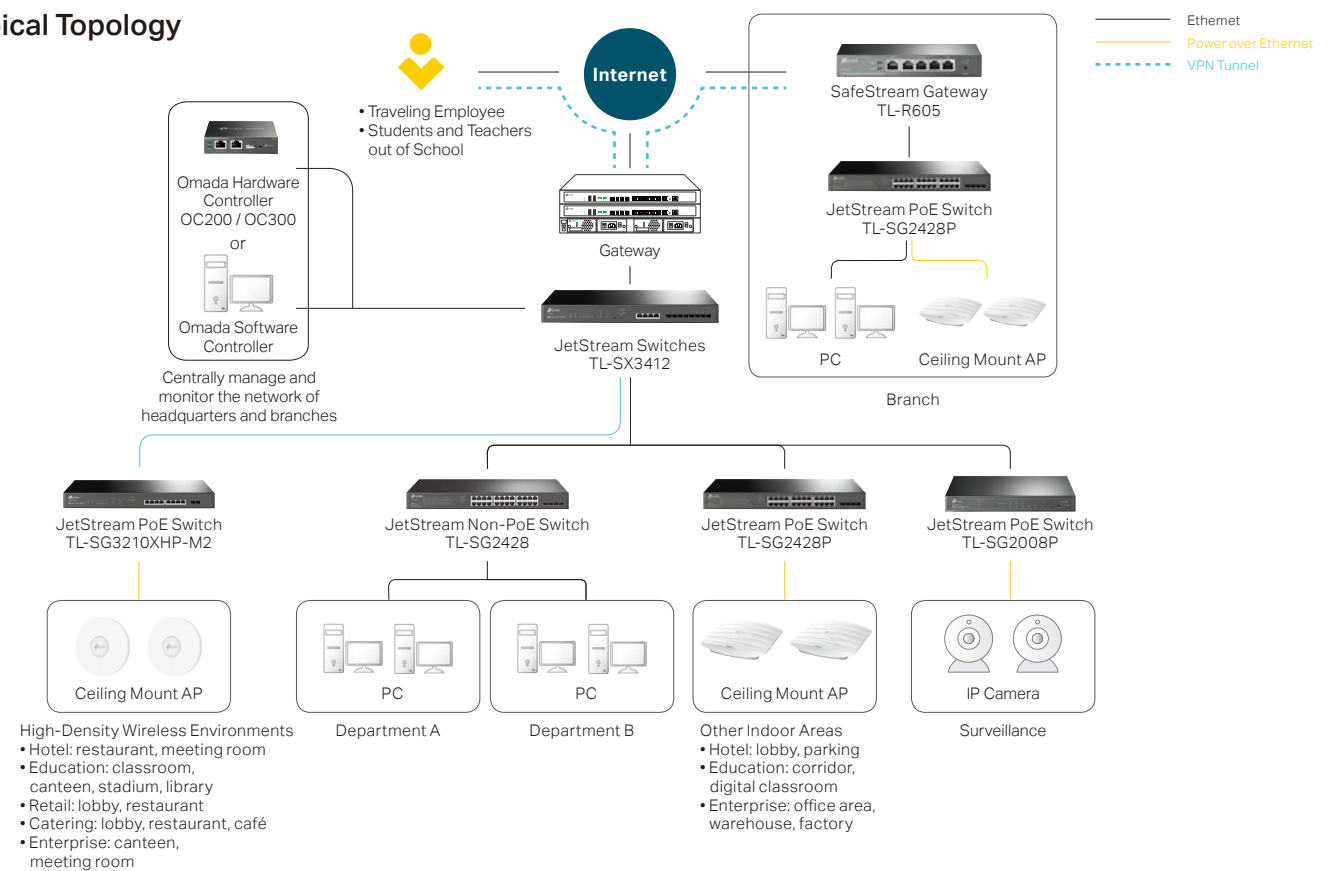

- ✔ VPN
- ✔ Easy management
- ✔ Network monitoring and troubleshooting
- ✔ High security

For many industries that have branches, like hotel chains, supermarket chains, restaurant chains, retail chains, company branches, university branches, and school branches, a virtual private network (VPN) is a way for different branches to share resources and communicate with each other. IT managers at headquarters also need to manage and monitor the whole network and quickly find and repair network issues. TP-Link Omada offers enterprise-level VPN, real-time network monitoring, and quick network troubleshooting to meet the requirements of headquarters and branches.

❯ Overview
Typical Topology

- Ethernet
- Power over Ethernet
- VPN Tunnel

Internet
- • Traveling Employee / • Students and Teachers out of School
- Omada Hardware Controller OC200 / OC300 or Omada Software Controller — Centrally manage and monitor the network of headquarters and branches
- SafeStream Gateway TL-R605
- JetStream PoE Switch TL-SG2428P
- PC / Ceiling Mount AP — Branch
- Gateway
- JetStream Switches TL-SX3412
- JetStream PoE Switch TL-SG3210XHP-M2 — Ceiling Mount AP
- JetStream Non-PoE Switch TL-SG2428 — PC / PC — Department A / Department B
- JetStream PoE Switch TL-SG2428P — Ceiling Mount AP
- JetStream PoE Switch TL-SG2008P — IP Camera — Surveillance

High-Density Wireless Environments
• Hotel: restaurant, meeting room
• Education: classroom, canteen, stadium, library
• Retail: lobby, restaurant
• Catering: lobby, restaurant, café
• Enterprise: canteen, meeting room

Department A

Department B

Other Indoor Areas
• Hotel: lobby, parking
• Education: corridor, digital classroom
• Enterprise: office area, warehouse, factory

Surveillance

*Omada Hardware Controller and Omada Software Controller can also be replaced with the Omada Cloud-Based Controller.

Benefits

High-Security VPN
Allow staff, teachers, and students to visit the internal network even at home, on a business trip, or at branches with a secure and enterprise-standard VPN.

Easy Centralized Management
Centrally manage your access points, switches, gateways, and more in different branches—all controlled from a single easy-to-use interface.

Quickly Troubleshoot to Stabilize the Network
Even when your IT manager is away or there's no IT manager at the branches, remotely and quickly locate network faults and analyze potential network issues with Omada's easy-to-use management interface and AI-Driven technology.

Protects Your Network from Threats
Utilize powerful firewalls, device security detection and protection, IP-MAC-Port-VLAN Binding, URL identification and filter and more.

Know Your Whole Network with Easy Monitoring
See your real-time network status and check the network traffic distribution in all branches with Omada's easy-to-use dashboard.

Product Recommendations

Headquarters

Products	Models	Deployment	Features
Switches	TL-SX3412	Machine room	**4× 10 G** RJ45 ports; **8× 10 G** SFP+ slots
	TL-SG3210XHP-M2	Machine room	**8× 2.5 G** 802.3af/at **PoE** RJ45 ports; **2× 10 G** SFP+ slots; 250 W PoE budget
	TL-SG2428P	Machine room	**24× Gigabit** 802.3af/at **PoE** RJ45 ports; **4× Gigabit** SFP slots; 250 W PoE budget
	TL-SG2428	Office area, meeting room	**24× Gigabit** RJ45 ports; **4× Gigabit** SFP slots
Ceiling Mount APs	**EAP660 HD**	High-density environments (restaurant, café, canteen, meeting room, classroom, stadium, library)	**Wi-Fi 6 (11AX)** improves efficiency in **high-density environments;** Up to **3,600 Mbps** Wi-Fi; **1× 2.5 G** RJ45 port; Seamless roaming; Captive portal; Supports 802.3at PoE
	EAP245	Office area, warehouse, factory, lobby, parking	Long-range indoor coverage; Dual-band 11AC Wi-Fi with speeds of up to **1,750 Mbps;** Seamless roaming; Captive portal; Supports 802.3af and Passive PoE

### Branches

Products	Models	Deployment	Features
Gateways	**TL-ER7206**	Machine room	5× GE RJ45 ports + 1× Gigabit SFP ports; Up to 4 WAN ports; Firewall; VPN; **Device security detection and protection*; URL identification**
	TL-R605	Machine room	5× GE RJ45 ports; Up to 4 WAN ports; Firewall; VPN
Switches	TL-SG3452X	Machine room	**48× Gigabit** RJ45 Ports; **4× 10 G** SFP+ Slots
	TL-SG2428P	Machine room	**24× Gigabit** 802.3af/at **PoE** RJ45 ports; **4× Gigabit** SFP slots; 250 W PoE budget
	TL-SG2008	Office area, meeting room	**8× Gigabit** RJ45 ports
Ceiling Mount APs	**EAP620 HD**	High-density environments (restaurant, café, canteen, meeting room, classroom, stadium, library)	**Wi-Fi 6 (11AX)** improves efficiency in **high-density environments;** Up to **1,800 Mbps** Wi-Fi; Seamless roaming; Captive portal; Supports 802.3at PoE
	EAP115	Office area, warehouse, factory, lobby, parking	Long-range indoor coverage; 300 Mbps Wi-Fi; Captive portal; Supports 802.3af PoE

❯ Typical Cases

Name	Type	Location	Capacity
McDonald's	Restaurant Chains	Ukraine	Multiple Restaurants
Tsui Wah Restaurant	Restaurant Chains	Hong Kong, China	30 Restaurants
OneSmart Education Group Ltd.	School Branches	China	Over 100 Branches

*These functions are being developed and will be coming soon.

Accommodation Residential Buildings | Villas | Dormitories | Apartments | Resorts | and More
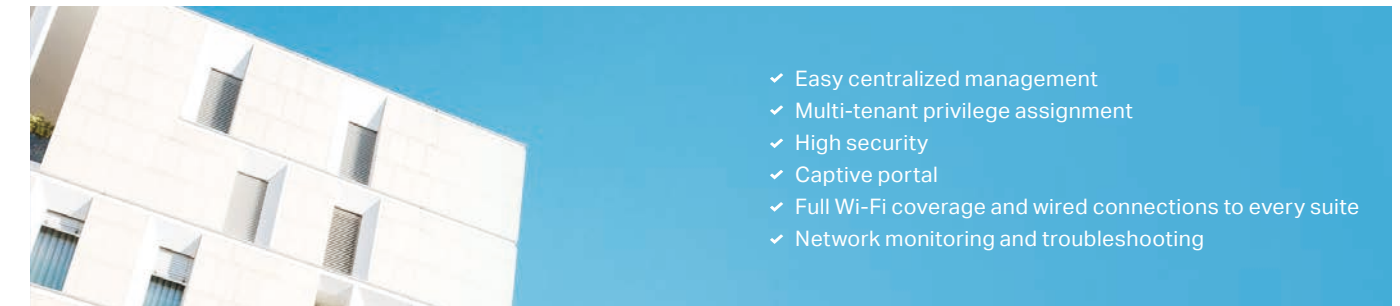
- ✔ Easy centralized management
- ✔ Multi-tenant privilege assignment
- ✔ High security
- ✔ Captive portal
- ✔ Full Wi-Fi coverage and wired connections to every suite
- ✔ Network monitoring and troubleshooting

Benefits

Easy Centralized Management
Centrally manage your access points, switches, gateways, and more, in every suite—all controlled from a single easy-to-use interface.

Protects Your Network from Threats
Powerful firewall, device security detection and protection, IP-MAC-Port-VLAN Binding, URL identification and filter, WPA3, and more advanced security functions prevent the risk of attacks.

Secure Authentication with Captive Portal
Captive Portal (SMS/Facebook Wi-Fi/Voucher, etc.) provides secure access to every family or guest.

Know your Whole Network with Easy Monitoring
See your real-time network status and check the network traffic distribution in all suites with Omada's easy-to-use dashboard.

Full Wi-Fi Coverage
Wall plate, ceiling mount, and outdoor APs provide stable and high-speed Wi-Fi for every suite room, villa, and outdoor area.

Reliable Wired Connections
The multiple Ethernet ports of thin wall plate APs provide further connections for wired devices and network expansion in every suite. The 2.5 G/ 1 G wired connections of switches are also provided.

Assign Different Management Roles
Allow every family to manage the network in his home separately with multi-tenant privilege assignment.

Quickly Troubleshoot to Stabilize the Network
Remotely and quickly locate network faults and analyze potential network problems with Omada's easy-to-use interface and AI-Driven technology.

❯ Typical Cases

Name	Location
Dormitory of Ilyas & Mustafa Galadari Group	UAE
Westlite Dormitory	Singapore
1873 Equestrian Resort	India

Name	Location
Hangzhou Xinda Binjiang Yipin Residential Building	China
Shenzhen Happy Coast Villa	China
Shanghai Dongfang Hongyu Villa District	China

Public Services Stadiums | Libraries | Concert Halls | Government
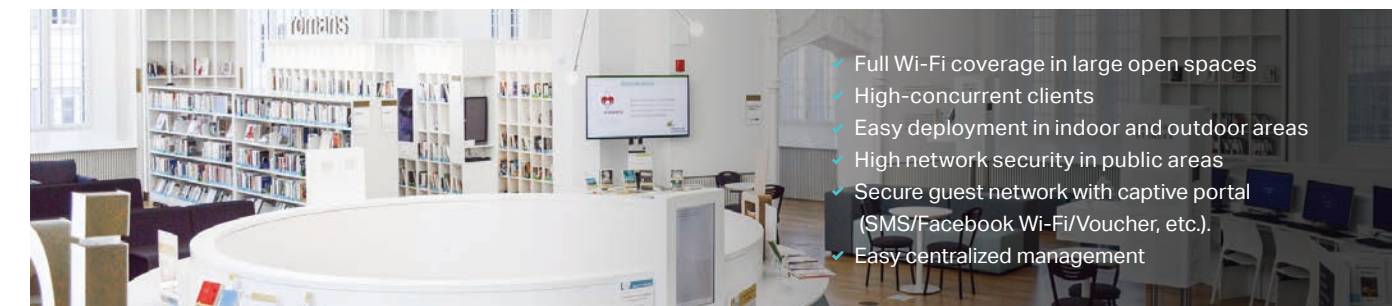
- ✔ Full Wi-Fi coverage in large open spaces
- ✔ High-concurrent clients
- ✔ Easy deployment in indoor and outdoor areas
- ✔ High network security in public areas
- ✔ Secure guest network with captive portal (SMS/Facebook Wi-Fi/Voucher, etc.).
- ✔ Easy centralized management

❯ Typical Cases

| Name	Location
Olympic Stadium Grand Torino	Italy
The Institute of Legislation and comparative law under the government of the Russian Federation	Russian
Garrison Public Library	Pakistan

Testimonials

"We are all thrilled with the Wi-Fi speed, coverage, and reliability of TP-Link's solution."

—Franco Lugani, Director of Communications at Torino F.C.
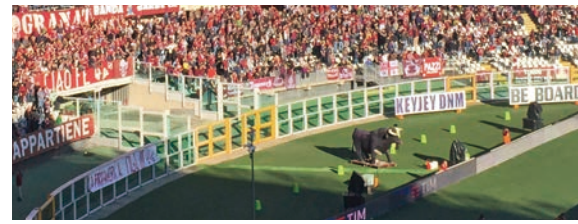
"The choice for the solution supplier was based on the requirement for urgent introduction of the Wi-Fi networks within the deadlines and limited budget in order to convene conferences, presentations and possibility for centralized monitoring in distant conference rooms of the customer. An additional goal, perfectly handled by the TP-Link equipment, has been the stable Wi-Fi coverage for a building with thick walls and floor slabs. We would like to express special gratitude to TP-Link for profound participance, assistance, and loyalty in this successful project. We are looking for further development of partnership."

—Arthur Kadyrov, Director for business development of INFOTAKTIKA

Big Events Game Tournaments | Exhibitions | Sports | Conferences | and More
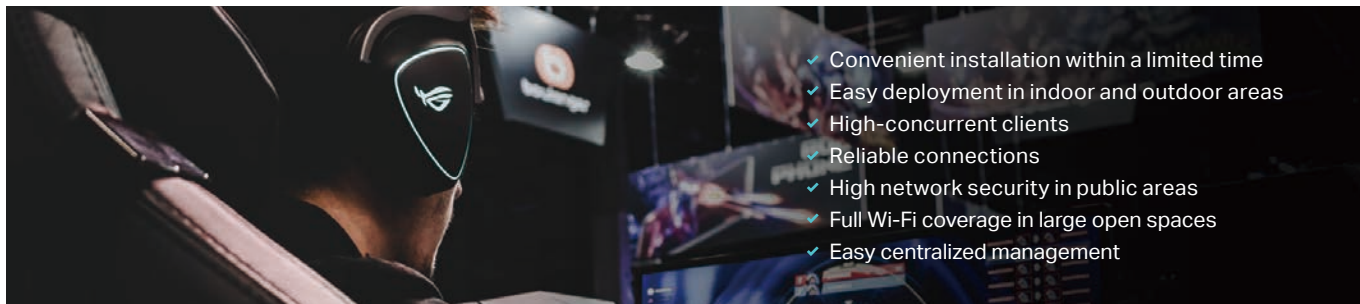
- ✔ Convenient installation within a limited time
- ✔ Easy deployment in indoor and outdoor areas
- ✔ High-concurrent clients
- ✔ Reliable connections
- ✔ High network security in public areas
- ✔ Full Wi-Fi coverage in large open spaces
- ✔ Easy centralized management

Typical Cases

Name	Location
Click-Storm eSports Tournament 2016	Russia
The PGL Major Krakow 2017	Romania
East European Comic Con (EECC)	Romania

Name	Location
Beijing ACL2015 International Conference Site	China
The 10th National Minority Games of China	China
The 4th Tianjin International Helicopter Expo	China

Testimonials

"We chose TP-Link to create our network based on the expert reviews of system administrators in Kazan's internet cafés. TP-Link allowed us to quickly deploy its Wi-Fi access points, which were able to connect over 100 smartphone and tablet-based players to Hearthstone."

—Alexey Talan, CEO at ClickStorm.

"The TP-Link hardware performed as expected and allowed us to deploy a complex network in a short amount of time, with a minimal amount of troubleshooting required."

—Vlad Rosca, PGL Technical Director

"TP-Link Romania have provided a high-quality service and the right equipment to meet our requirements in each of the projects we have worked on together. EECC2017 was their toughest challenge so far and they passed with flying colors."

—Marius Radu, EECC Gaming Director.

Products Specifications

Omada Controllers

	Omada Cloud-Based Controller	On-Premises Controller	
		Omada Hardware Controller	Omada Software Controller
Way of Use	Pay, log in, and use, with zero-touch provisioning	Connect to the intranet	Deploy to intranet servers or private clouds
Number of Management Scale	Unlimited	OC200: ≤100 OC300: ≤500	≤1,500, depending on the PC / server's hardware specifications
Product Positioning	Small / Medium / Large SI networks are applicable	Small / Medium networks	Medium / Large networks
Pricing Model	Service subscription fee*	Hardware costs	Free
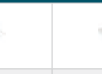
*Subscription service is differentiated according to the charge

❯ Omada Hardware Controllers

		OC200	OC300
Product Picture			
Model		OC200	OC300
Product Description		Omada Hardware Controller	
Main Design	Management Scale	<100 Devices; <1,000 Clients	<500 Devices; <15,000 Clients
	Processor	Dual-Core Cortex-A53 1.2 GHz	Quad-Core Cortex-A72 1.4 GHz
	Memory Information	1 GB DDR3	2 GB DDR4
	Storage	4 GB EMMC	8 GB EMMC
	Interface	2 × 10/100 Mbps Ethernet Ports; 1 × USB 2.0 Port; 1 × Micro USB Port	2 × Gigabit Ethernet Ports; 1 × USB 3.0 Port
Hardware Design	Power Supply	802.3af/at PoE; Micro USB（DC 5 V / Minimum 1A）	100~240 VAC; 50/60 Hz
	Dimensions	3.9 × 3.9 × 1.0 in (100 × 98 × 25 mm)	11.6 × 7.1 × 1.7 in (294 × 180 × 44 mm)
	Environment	Operating Temperature: 0~40 °C (32~104 °F); Storage Temperature: -40~70 °C (-40~158 °F); Operating Humidity: 10~90% RH non-condensing; Storage Humidity: 5~90% RH non-condensing	
Device Management	Support Devices	TP-Link Omada EAP Series, JetStream Switches, Safestream Gateways*	
	AP Automatic Discovery	●	
	AP Unified Configuration	●	
	L3 Management	●	
	Reboot Schedule	●	
	Online Firmware Upgrade	●	
Security	Management VLAN	●	
	MAC Filter	●	
	Encryption	WEP, WPA-Personal/Enterprise, WPA2-Personal/Enterprise, WPA3-SAE/Enterprise	
	Access Control	●	
	SSID to VLAN Mapping	●	
Wireless Function	Captive Portal	SMS, Facebook Wi-Fi, Voucher, Local User, Simple Password, External RADIUS Portal	
	Seamless Roaming	●	
	Mesh	●	
	Band Steering	●	
	Load Balance	●	
	Beamforming	●	
	Rate Limit	Based on SSID/Client	
	Transmit Power Adjustment	●	
	Wireless Schedule	●	

*Only some JetStream switches and Safestream gateways can be centrally managed by Omada Controllers, please refer to the following pages to find the supported models.

Omada Ceiling Mount Access Points

		Ceiling Mount AP						
		Wi-Fi 6		Wi-Fi 5			Wi-Fi 4	
	Model	EAP660 HD	EAP620 HD	EAP265 HD	EAP245	EAP225	EAP115	EAP110
	Product Description	AX3600 Wireless Dual Band Multi-Gigabit Ceiling Mount Access Point	AX1800 Wireless Dual Band Ceiling Mount Access Point	AC1750 Wireless MU-MIMO Gigabit Ceiling Mount Access Point	AC1750 Wireless MU-MIMO Gigabit Ceiling Mount Access Point	AC1350 Wireless MU-MIMO Gigabit Ceiling Mount Access Point	300 Mbps Wireless N Ceiling Mount Access Point	300 Mbps Wireless N Ceiling Mount Access Point
Main Design	Wi-Fi Class	AX3600	AX1800	AC1750	AC1750	AC1350	N300	N300
	Wi-Fi Speed (2.4 GHz)	1148 Mbps	574 Mbps	450 Mbps	450 Mbps	450 Mbps	300 Mbps	300 Mbps
	Wi-Fi Speed (5 GHz)	2402 Mbps	1201 Mbps	1300 Mbps	1300 Mbps	867 Mbps	-	-
	Ethernet Ports	1× 2.5 G	1× GE	2× GE	2× GE	1× GE	1× 10/100 Mbps	1× 10/100 Mbps
	Antennas	5 dBi (2.4 G) 6 dBi (5 G)	4 dBi (2.4 G) 5 dBi (5 G)	3× 3.5 dBi (2.4 G) 3× 4 dBi (5 G)	3× 3.5 dBi (2.4 G) 3× 4 dBi (5 G)	3× 4 dBi (2.4 G) 2× 5 dBi (5 G)	2× 4 dBi (2.4 G)	2× 4 dBi (2.4 G)
	Power Supply	802.3at PoE or 12 V DC	802.3at PoE or 12 V DC	802.3af PoE 48 V / 0.5A Passive PoE	802.3af PoE 48 V / 0.5A Passive PoE	802.3af PoE 24 V / 0.5A Passive PoE	802.3af PoE 9 V / 0.6A DC	24 V / 0.5A Passive PoE
	Mounting	Ceiling/ Wall mounting (Kits included)						
	Dimensions (W × D × H)	9.6 × 9.6 × 2.5 in (243× 243 × 64 mm)		8.1 × 7.1 × 1.5 in (205.5 × 181 × 37.1 mm)			7.5 × 6.8 × 1.2 in (189.4 × 172.3 × 29.5 mm)	
	Environment	Operating Temperature: 0–40 °C (32–104 °F); Storage Temperature: -40–70 °C (-40–158 °F); Operating Humidity: 10–90% RH non-condensing; Storage Humidity: 5–90% RH non-condensing						
Management	Omada Software Controller	●	●	●	●	●	●	●
	Omada Hardware Controller	●	●	●	●	●	●	●
	Omada Cloud-Based Controller	●	●	●	●	●	●	●
	Zero-Touch Provisioning**	●	●	●	●	●	●	●
	Cloud Access	●	●	●	●	●	●	●
	Omada App	●	●	●	●	●	●	●
	Standalone Management	●	●	●	●	●	●	●
Wireless Functions	1024-QAM	●	●	-	-	-	-	-
	4× Longer OFDM Symbol	●	●	-	-	-	-	-
	OFDMA	●	●	-	-	-	-	-
	BSS Coloring	Developing	Developing	-	-	-	-	-
	Mesh	Developing	Developing	●*	●*	●	-	-
	Seamless Roaming	●	●	●	●	●	-	-
	MU-MIMO	●	●	●	●	●	-	-
	Beamforming	●	●	●	●	●	-	-
	Airtime Fairness	●	●	●	●	●	-	-
	Band Steering	●	●	●	●	●	-	-
	Load Balancing / Rate Limit	●	●	●	●	●	●	●
	Wireless / Reboot Schedule	●	●	●	●	●	●	●
	Automatic Channel Assignment	●	●	●	●	●	●	●
	Transmit Power Control	Adjust Transmit Power on dBm						
	Multiple SSIDs	16 (8 on each radio)					8	
Security	Captive Portal (Facebook Wi-Fi, SMS, Voucher, etc.)	●	●	●	●	●	●	●
	Access Control	●	●	●	●	●	●	●
	Wireless MAC Address Filtering	●	●	●	●	●	●	●
	SSID to VLAN Mapping	●	●	●	●	●	●	●
	Rogue AP Detection	●	●	●	●	●	●	●
	802.1X Support	●	●	●	●	●	●	●
	WPA3	●	●	-	-	-	-	-
	Encryption	WEP, WPA-Personal/Enterprise, WPA2-Personal/Enterprise						

*Mesh functions of EAP245 and EAP265 HD are being developed and scheduled to be supported in 2020.
**Zero-Touch Provisioning is supported when using Omada Cloud-Based Controller.

Omada Wall Plate and Outdoor Access Points

		Wall Plate AP				Outdoor AP	
	Model	EAP235-Wall	EAP230-Wall	EAP225-Wall	EAP115-Wall	EAP225-Outdoor	EAP110-Outdoor
	Product Description	AC1200 Wireless MU-MIMO Gigabit Wall Plate Access Point	AC1200 Wireless MU-MIMO Gigabit Wall Plate Access Point	AC1200 Wireless MU-MIMO Gigabit Wall Plate Access Point	300 Mbps Wireless N Wall Plate Access Point	AC1200 Wireless MU-MIMO Gigabit Indoor/ Outdoor Access Point	300 Mbps Wireless N Outdoor Access Point
Main Design	Wi-Fi Class	AC1200	AC1200	AC1200	N300	AC1200	N300
	Wi-Fi Speed (2.4 GHz)	300 Mbps	300 Mbps	300 Mbps	300 Mbps	300 Mbps	300 Mbps
	Wi-Fi Speed (5 GHz)	867 Mbps	867 Mbps	867 Mbps	-	867 Mbps	-
	Ethernet Ports	4× GE	2× GE	4× 10/100 Mbps	2× 10/100 Mbps	1× GE	1× 10/100 Mbps
	Antennas	2× 4 dBi (2.4 G) 2× 4 dBi (5 G)	2× 3 dBi (2.4 G) 2× 4 dBi (5 G)	2×3 dBi (2.4G) 2×4 dBi (5G)	2× 1.8 dBi (2.4 G)	2× 3 dBi (2.4 G) 2× 4 dBi (5 G)	2× 3 dBi (2.4 G)
	Power Supply	802.3af/at PoE	802.3af PoE	802.3af/at PoE	802.3af PoE	802.3af PoE 24 V Passive PoE	24 V Passive PoE
	Mounting	Wall Plate mounting (kits included)				Pole/Wall mounting (Kits included)	
	Dimensions (W × D × H)	5.6 × 3.4 × 0.8 in (143 × 86 × 19.7 mm)	3.4 × 3.4 × 1.2 in (86.8 × 86.8 × 30.2 mm)	5.6 × 3.4 × 0.8 in (143 × 86 × 19.7 mm)	3.4 × 3.4 × 1.2 in (86.8 × 86.8 × 30.2 mm)	8.5 × 1.8 × 1.1 in (215 × 46 × 27 mm)	
	Environment	Operating Temperature: 0–40 °C (32–104 °F); Storage Temperature: -40–70 °C (-40–158 °F) Operating Humidity: 10–90% RH non-condensing; Storage Humidity: 5–90% RH non-condensing				Operating Temperature: -30–70 °C (-22–158 °F); Storage Temperature: -40–70 °C (-40–158 °F) Operating Humidity: 10–90% RH non-condensing; Storage Humidity: 5–90% RH non-condensing	
Management	Omada Software Controller	●	●	●	●	●	●
	Omada Hardware Controller	●	●	●	●	●	●
	Omada Cloud-Based Controller	●	●	●	●	●	●
	Zero-Touch Provisioning*	●	●	●	●	●	●
	Cloud Access	●	●	●	●	●	●
	Omada App	●	●	●	●	●	●
	Standalone Management	●	●	●	●	●	●
Wireless Functions	Mesh	-	-	-	-	●	-
	Seamless Roaming	-	-	-	-	●	-
	MU-MIMO	●	●	●	-	●	-
	Beamforming	●	●	●	-	●	-
	Airtime Fairness	-	-	-	-	●	-
	Band Steering	●	●	●	-	●	-
	Load Balancing / Rate Limit	●	●	●	●	●	●
	Wireless / Reboot Schedule	●	●	●	●	●	●
	Automatic Channel Assignment	●	●	●	●	●	●
	Transmit Power Control	Adjust Transmit Power on dBm					
	Multiple SSIDs	16 (8 on each radio)			8	16 (8 on each radio)	8
Security	Captive Portal (Facebook Wi-Fi, SMS, Voucher, etc.)	●	●	●	●	●	●
	Access Control	●	●	●	●	●	●
	Wireless MAC Address Filtering	●	●	●	●	●	●
	SSID to VLAN Mapping	●	●	●	●	●	●
	Rogue AP Detection	●	●	●	●	●	●
	802.1X Support	●	●	●	●	●	●
	Encryption	WEP, WPA-Personal/Enterprise, WPA2-Personal/Enterprise					

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

JetStream Switches by Omada SDN

	10 GE	2.5 GE	1 GE							
Product Picture										
Model	TL-SX3412*	TL-SG3210XHP-M2*	TL-SG3452X*	TL-SG3452XMP*	TL-SG3428XMP*	TL-SG2428	TL-SG2428P	TL-SG2210MP	TL-SG2008P	TL-SG2008
RJ45 Ports	4× 10 GE	8× 2.5 GE	48× 1 GE	48× 1 GE	24× 1 GE	24× 1 GE	24× 1 GE	8× 1 GE	8× 1 GE	8× 1 GE (1 PD port)
Fiber Ports	8 × 10 G SFP+	2× 10 G SFP+	4× 10 G SFP+	4× 10 G SFP+	4× 10 G SFP+	4× SFP	4× SFP	2× SFP	-	-
Console Ports	1 (RJ45) + 1 (Micro-USB)					-	-	-	-	-
Installation	TBD	19-inch Rackmount	TBD	TBD	19-inch Rackmount	19-inch Rackmount	19-inch Rackmount	13-inch Rackmount/Desktop	Desktop	Desktop
PoE Standards	802.3at/af PoE	802.3at/af PoE	-	802.3at/af PoE	802.3at/af PoE	-	802.3at/af PoE	802.3at/af PoE	802.3at/af PoE	-
PoE Ports	-	8	-	48	24	-	24	8	4	-
PoE Budget	-	250 W (TBD)	-	700 W	400 W	-	250 W	150 W	60 W	-
Switching Capacity	240 Gbps	80 Gbps	176 Gbps	176 Gbps	128 Gbps	56 Gbps	56 Gbps	20 Gbps	16 Gbps	16 Gbps
MAC Address Table	TBD	8K	TBD	TBD	8K	8K	8K	8K	8K	8K
802.1Q VLAN	●	●	●	●	●	●	●	●	●	●
Voice VLAN	●	●	●	●	●	●	●	●	●	●
LLDP-MED	●	●	●	●	●	●	●	●	●	●
STP/RSTP	●	●	●	●	●	●	●	●	●	●
IGMP Snooping	●	●	●	●	●	●	●	●	●	●
ACL / SNMP	●	●	●	●	●	●	●	●	●	●
Omada Software Controller	●	●	●	●	●	●	●	●	●	●
Omada Hardware Controller	●	●	●	●	●	●	●	●	●	●
Cloud-Based Controller	●	●	●	●	●	●	●	●	●	●
Zero-Touch Provisioning**	●	●	●	●	●	●	●	●	●	●
Cloud Access	●	●	●	●	●	●	●	●	●	●
Omada App	●	●	●	●	●	●	●	●	●	●
Standalone Mode	●	●	●	●	●	●	●	●	●	●

*These products are being developed. The product images are design sketches for reference only. Models and specifications may vary.
**Zero-Touch Provisioning is supported when using Omada Cloud-Based Controller.

SafeStream Gateways by Omada SDN

Product Picture		
Model	TL-ER7206*	TL-R605*
Ports	1× Gigabit SFP + 5× Gigabit RJ45 Ports (1× SFP WAN + 1× WAN + 2× WAN/LAN + 2× LAN)	5× Gigabit RJ45 Ports (1× WAN + 3× WAN/LAN + 1× LAN)
Installation	Desktop	
WAN Connection Type	Dynamic/Static IP; PPPoE; PPTP; L2TP	
IPv6	●	
VPN	IPsec; PPTP; L2TP; L2TP over IPsec; OpenVPN	
Load Balance	●	
Routing	Static Routing; Policy Routing	
ACL	●	
Web Authentication	Voucher; Local User; SMS; Portal; Facebook; External Web Portal	
URL Filtering	●	
Attack Defense	●	
Multi-Net DHCP/VLAN	●	
IPS	Developing	-
Malicious Site Blocker	Developing	-
Risk Detection	Developing	-
Client Device Identification	Developing	-
Traffic Statistics Analysis	Developing	-
Omada Software Controller	●	
Omada Hardware Controller	●	
Cloud-Based Controller	●	
Zero-Touch Provisioning**	●	
Cloud Access	●	
Omada App	●	
Standalone Mode	●	

*These products are being developed. Product images and specifications may vary then.
**Zero-Touch Provisioning is supported when using Omada Cloud-Based Controller.

Certification and Training

The TP-Link Certification and Training system is a free online, on-demand training program that provides professional coursework and exams focused on specific technologies. Currently, TPNA for SMB, TPNP for SMB Routing & Switching, and TPNP for SMB Business Wi-Fi are provided. Access professional training to develop your skills and gain certification to enhance your career.

TPNA tp-link

Designed for sales professionals, the TPNA SMB (TP-Link Network Associate for SMB) Certification attests to your acquired advanced network and wireless knowledge. It also certifies that you can explain and differentiate TP-Link SMB products based on criteria such as usage scenarios, configuration methods, software functions, and involved technologies.

TPNP tp-link

Designed for technical professionals, the TPNP (TP-Link Network Professional) SMB Routing & Switching and Business Wi-Fi Certifications attest to your knowledge of Routing & Switching related to TP-Link Switches. Both also certify your ability to deploy business indoor and outdoor Wi-Fi, including assessment, installation, and maintenance.

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> Marketing Materials   > Promotions   > Support   > Training & Certification

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