tp-link | Omãda

The Smarter Cloud Solution for Business Networking
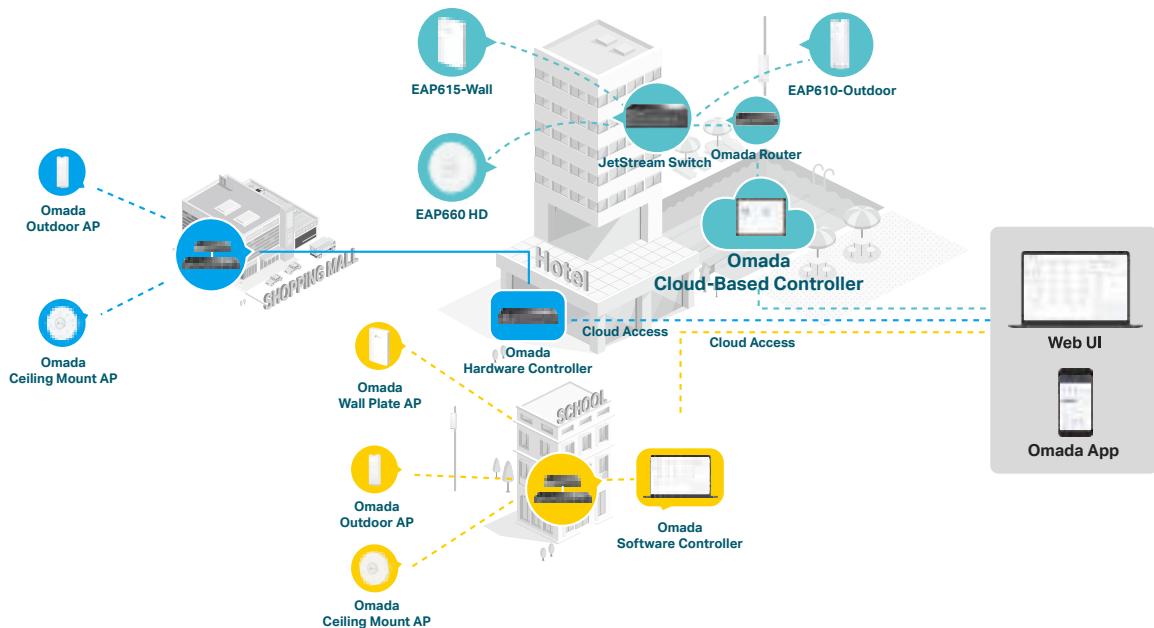
Routers, Switches, Access Points, Controllers

Hospitality | Education | Retail | Office | and More

Omada—Smarter Cloud Solution for Business Networking

Omada's Software Defined Networking (SDN) platform integrates network devices, including access points, switches, and routers, providing 100% centralized cloud management—all controlled from a single interface.


◆ 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.

1	2	3	4	5
Site Survey	Network Deployment	Configuration & Management	Monitoring & Maintenance	Report

1 Site Survey

Wi-Fi Heatmap Simulator to Generate Wi-Fi Solutions with Ease

Simulates the wireless coverage effect of APs in the actual site, and determines the appropriate number and location of APs according to the coverage requirements.
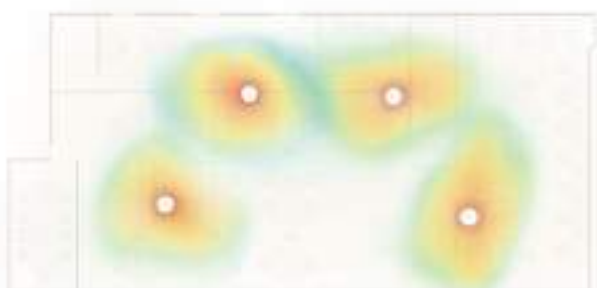
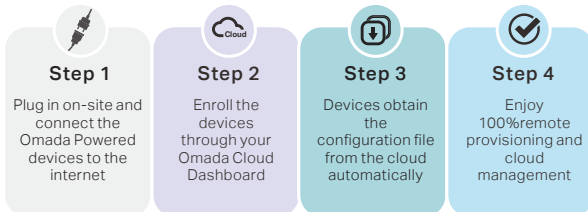Unreasonable AP Deployment without Wi-Fi Heatmap Simulator
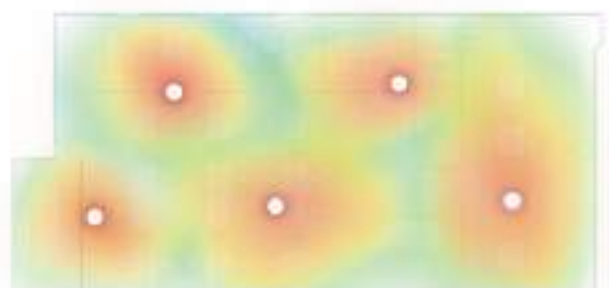
Reasonable AP Deployment with Wi-Fi Heatmap Simulator

② Network Deployment

⚙️ Zero-Touch Provisioning*

By using Cloud-Based Controller, 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.

Step 1
Plug in on-site and connect the Omada Powered devices to the internet

Step 2
Enroll the devices through your Omada Cloud Dashboard

Step 3
Devices obtain the configuration file from the cloud automatically

Step 4
Enjoy 100% remote provisioning and cloud management

⤬ 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.

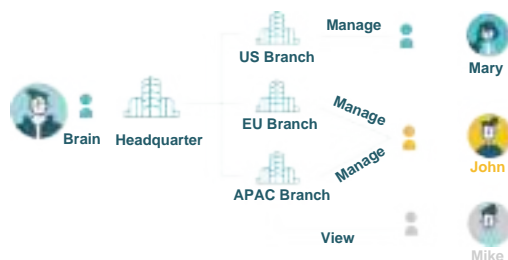Channel 1   Channel 11   Channel 6
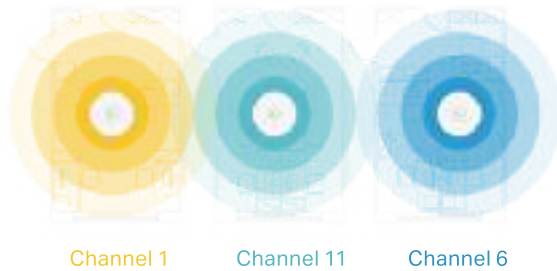
③ Configuration & Management

☁️ Hassle-Free Centralized Cloud Management

100% centralized cloud management of access points, switches, routers, and more from different sites—all controlled from a single interface anywhere, anytime. Batch configuration and remote firmware updates greatly benefit maintenance.

omāda
Cloud Networking Solution   Site A Site B Site C

Unified Management from One Interface

Access Points
Switches
routers
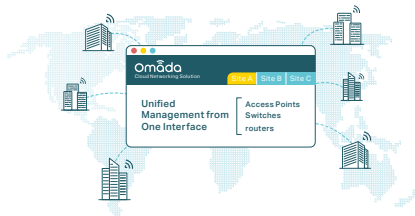
📈 Assign Different Management Roles

Take advantage of multi-person management and multi-level permissions, while adding administrators wherever necessary. Enjoy flexible network operations and maintenance that suit your schedule.

Brain   Headquarter
US Branch   Manage   Mary
EU Branch   Manage   John
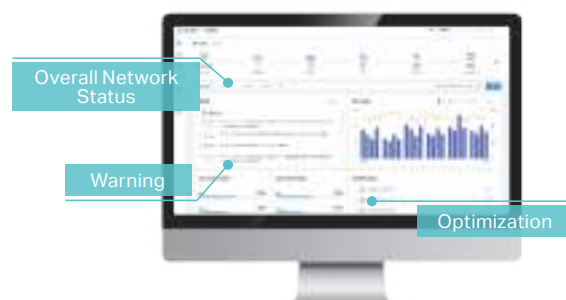APAC Branch   Manage
View   Mike

④ Monitoring & Maintenance

📊 Easy and Intelligent Network Monitoring

The easy-to-use dashboard, makes it easy to see your real-time network status, check network usage and traffic distribution, receive network condition logs 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.

Network Status Report

Network Topology at a Glance

Check the Traffic Distribution

🤖 Intelligent Network Analysis, Warning, and Optimization** with AI-Driven Tech

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

Overall Network Status

Warning

Optimization

⑤ Network Deployment

📈 Visualizable Network Report for a Conveniently Summary

Service providers can easily report network service quality to their customers through customized reports, and IT administrators can also easily report network operation status through reports.
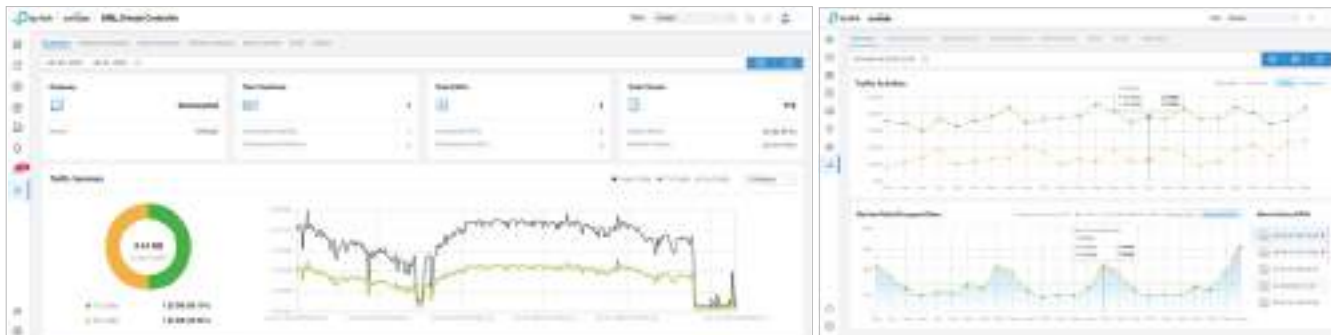
❯ Higher Security

🔒 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.
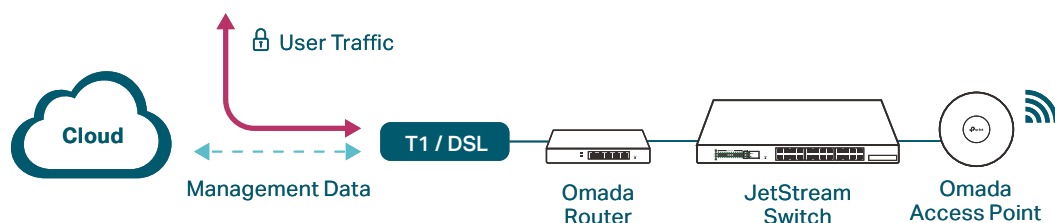
🛡 Abundant Security Functions

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

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

❯ 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
Geographically Isolated Back-up Servers
Reliable Product

Higher Reliability

❯ Future-Proof 10G Multi-Gigabit Network Solution

Omada offers routers, switches, access points with 10GbE and 2.5GbE ports. These products combine to form a powerful 10G multi-gigabit network solution, unlocking the potential of your bandwidth and devices. Integrating the Omada Software Defined Networking (SDN) system and its centralized management capability makes it far more efficient to control your whole business network.
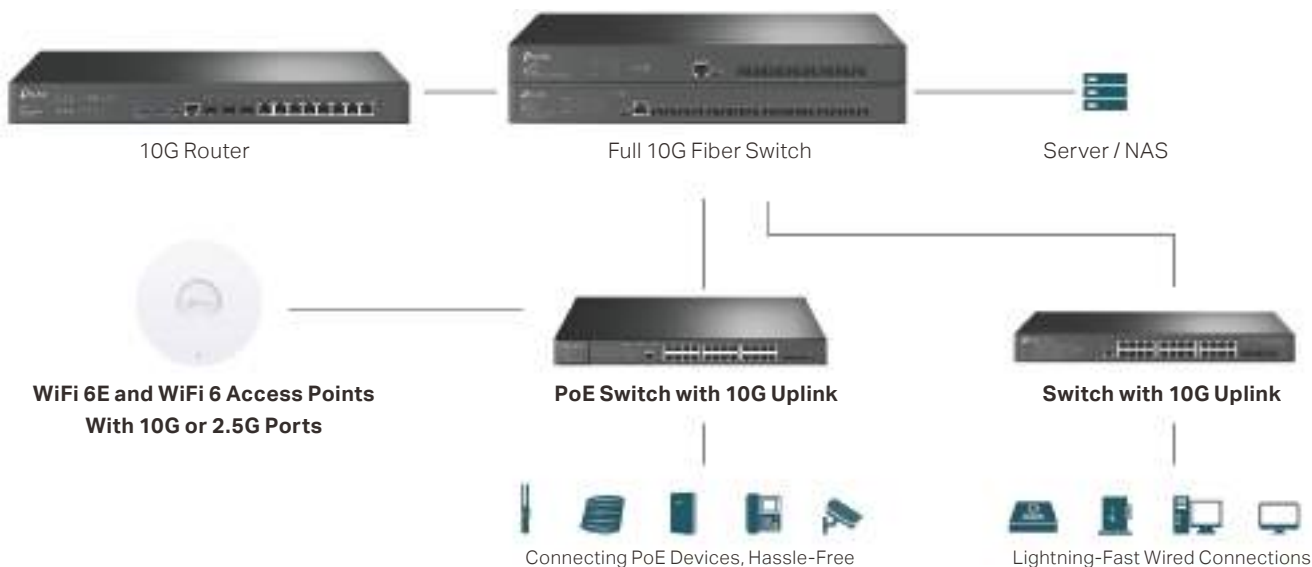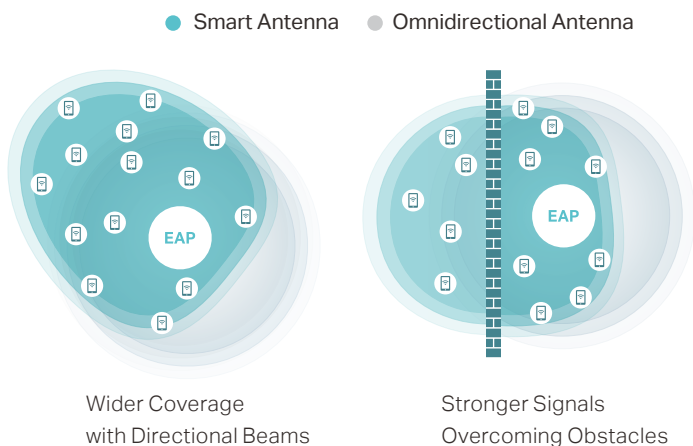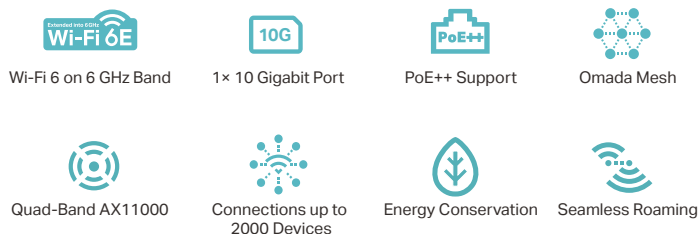
10G Router

Full 10G Fiber Switch

Server / NAS

WiFi 6E and WiFi 6 Access Points With 10G or 2.5G Ports

PoE Switch with 10G Uplink

Switch with 10G Uplink

Connecting PoE Devices, Hassle-Free

Lightning-Fast Wired Connections

❯ Omada Wi-Fi 6E Access Points Improve Experience in High-Density Environments

HD

EAP690E HD

AX11000 Ceiling Mount
Quad-Band Wi-Fi 6E Access Point

6 GHz	4× 1201 Mbps
5 GHz_1	4× 600 Mbps
5 GHz_2	4× 600 Mbps
2.4 GHz	4× 287 Mbps

Extended into 6GHz
Wi-Fi 6E
Wi-Fi 6 on 6 GHz Band

10G
1× 10 Gigabit Port

PoE++
PoE++ Support

Omada Mesh

Quad-Band AX11000

Connections up to 2000 Devices

Energy Conservation

Seamless Roaming

● Smart Antenna   ○ Omnidirectional Antenna

Wider Coverage
with Directional Beams

Stronger Signals
Overcoming Obstacles

Experience the Peak of Wi-Fi 6 with Smart Antenna

Improve performance for user-heavy scenarios through TP-Link's ingenious antenna array and intelligent algorithm.

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

❖ Omada Controllers

Type	On-Premises Controller (Hybrid Cloud)		Cloud Controller
	Omada Hardware Controller	**Omada Software Controller**	**Omada Cloud-Based Controller**
Usage Method	Connect to the intranet	Deploy to intranet servers or private clouds	Pay, log in, and use, with zero-touch provisioning
Management Scale	OC200: ≤ 100 APs + 20 Switches + 10 Routers OC300: ≤ 500 APs + 100 Switches + 100 Routers	≤1,500*	Unlimited
Network Type	Small/Medium local networks	Medium/Large networks	Medium/Large multi-site networks
Cloud Access	√ (Free)	√ (Free)	√ (Device license fee)
Automatic Channel Selection and Transmit Power Adjustment; Zero-Touch Provisioning; Intelligent Network Analysis, Warning, and Optimization**	-	-	√
Advanced Functions	Multi-Site Management, Multi-User Privilege Assignment, Wi-Fi Heatmap Simulator, Network Summary Report, Abnormal Event Warnings and Notifications, Batch Configuration, Batch Firmware Upgrading, Captive Portal (Facebook Wi-Fi, Voucher, SMS, etc.)		

* Actual management scale of the Omada Software Controller depends on the PC/server's hardware specifications.
** Intelligent Network Analysis, Warning, and Optimization are being developed and scheduled to be released in 2022.

❖ Omada Access Points

	Ceiling Mount AP											
	Wi-Fi 6E	**Wi-Fi 6**						**Wi-Fi 5**			**Wi-Fi 4**	
Model	EAP690E HD	EAP670	EAP660 HD	EAP653	EAP650	EAP620 HD	EAP610	EAP265 HD	EAP245	EAP225	EAP115	EAP110
Wi-Fi Class	AX11000	AX5400	AX3600	AX3000	AX3000	AX1800	AX1800	AC1750	AC1750	AC1350	N300	N300
Wi-Fi Speed (6 GHz)	4× 1201 Mbps	-	-	-	-	-	-	-	-	-	-	-
Wi-Fi Speed (5 GHz)	4× 574 Mbps + 4× 574 Mbps	4× 1201 Mbps	4× 600 Mbps	2× 1201 Mbps	2× 1201 Mbps	2× 600 Mbps	2× 600 Mbps	1300 Mbps	1300 Mbps	867 Mbps	-	-
Wi-Fi Speed (2.4 GHz)	4× 287 Mbps	2× 287 Mbps	4× 287 Mbps	2× 287 Mbps	2× 287 Mbps	2× 287 Mbps	2× 287 Mbps	450 Mbps	450 Mbps	450 Mbps	300 Mbps	300 Mbps
Ethernet Ports	1× 10GE	1× 2.5GE	1× 2.5GE	1× 1GE	1× 1GE	1× 1GE	1× 1GE	2× 1GE	2× 1GE	1× 1GE	1× 10/100 Mbps	1× 10/100 Mbps
Power Supply	802.3bt PoE or 12V DC	802.3at PoE, 48V Passive PoE, or 12V DC					802.3at PoE, 48V Passive PoE, or 12V DC	802.3af PoE or 48V Passive PoE		802.3af PoE or Passive PoE	802.3af PoE or 9V DC	24V Passive PoE
Mesh*	•	•	•	•	•	•	•	•	•	•	-	-
Seamless Roaming*	•	•	•	•	•	•	•	•	•	•	-	-
MU-MIMO	•	•	•	•	•	•	•	•	•	•	-	-
Advanced Functions	Captive Portal (Facebook Wi-Fi, SMS, Voucher, etc.)*, 802.1X Authentication, Wireless / Reboot Schedule, Automatic Channel Assignment, 8 SSIDs per Band											

	Outdoor AP			
	Wi-Fi 6		**Wi-Fi 5**	**Wi-Fi 4**
Model	EAP650-Outdoor	EAP610-Outdoor	EAP225-Outdoor	EAP110-Outdoor
Wi-Fi Class	AX3000	AX1800	AC1200	N300
Wi-Fi Speed (5 GHz)	2× 1201 Mbps	2× 600 Mbps	867 Mbps	-
Wi-Fi Speed (2.4 GHz)	2× 287 Mbps	2× 287 Mbps	300 Mbps	300 Mbps
Ethernet Ports	1× 1GE	1× 1GE	1× 1GE	1× 10/100 Mbps
Power Supply	802.3at PoE or 48V Passive PoE	802.3at PoE or 48V Passive PoE	802.3af PoE or 24V Passive PoE	24V Passive PoE
Mesh*	•	•	•	-
Seamless Roaming*	•	•	•	-
MU-MIMO	•	•	•	-
Weatherproof	IP67	IP67	IP65	IP65
Operating Temperature	-30–70 °C (-22–158 °F)			-30–65 °C (-22–149 °F)
Advanced Functions	Captive Portal (Facebook Wi-Fi, SMS, Voucher, etc.)*, 802.1X Authentication, Wireless / Reboot Schedule, Automatic Channel Assignment, 8 SSIDs per Band			

*Omada Mesh, Seamless Roaming, Captive Portal, and Cloud Access require the use of Omada SDN controllers. Please refer to the User Guides of Omada SDN controllers for configuration methods.

	Wall Plate AP					
	Wi-Fi 6			Wi-Fi 5		Wi-Fi 4
Model	EAP655-Wall	EAP650-Wall	EAP615-Wall	EAP235-Wall	EAP230-Wall	EAP115-Wall
Wi-Fi Class	AX3000	AX3000	AX1800	AC1200	AC1200	N300
Wi-Fi Speed (5 GHz)	2× 1201 Mbps	2× 1201 Mbps	2× 600 Mbps	867 Mbps	867 Mbps	-
Wi-Fi Speed (2.4 GHz)	2× 287 Mbps	2× 287 Mbps	2× 287 Mbps	300 Mbps	300 Mbps	300 Mbps
Ethernet Ports	4× 1GE	2× 1GE	4× 1GE	4× GE	2× GE	2× 10/100 Mbps
Power Supply	802.3at/af PoE	802.3af PoE	802.3at/af PoE	802.3at/af PoE	802.3af PoE	802.3af PoE
Seamless Roaming*	•	•	•	-	-	-
PoE Pass-through**	•	-	•	•	-	-
Advanced Functions	Captive Portal (Facebook Wi-Fi, SMS, Voucher, etc.)*, 802.1X Authentication, Wireless / Reboot Schedule, Automatic Channel Assignment, 8 SSIDs per Band					

*Omada Mesh, Seamless Roaming, Captive Portal, and Cloud Access require the use of Omada SDN controllers. Please refer to the User Guides of Omada SDN controllers for configuration methods.
**PoE pass-through is only available when 802.3at powers the device.

❯ JetStream Switches Integrated into Omada SDN

	Full 10G			2.5 GE + 10 G Uplink	1 GE + 10G Uplink				
Model	TL-SX3016F	TL-SX3008F	TL-SX3206HPP	TL-SG3210XHP-M2	TL-SG3452XP	TL-SG3452X	TL-SG3428XMP	TL-SG3428X	TL-SG3428XF
RJ45 Ports	-	-	4× 10 GE (PoE++)	8× 2.5 GE (PoE+)	48× Gigabit (PoE+)	48× Gigabit	24× Gigabit (PoE+)	24× Gigabit	-
Fiber Ports	16× 10 G SFP+	8× 10 G SFP+	2× 10 G SFP+		4× 10 G SFP+				4× 10 G SFP+, 20× Gigabit SFP Ports, 4× Gigabit SFP/RJ45 Combo Ports
Console Ports	1 (RJ45) + 1 (Micro-USB)								
Installation	Rackmount								
Redundant Power Supply	•	-	-	-	-	-	-	-	•
PoE Standards	-	-	802.3bt/at/af	802.3at/af		-	802.3at/af	-	-
PoE Ports	-	-	4	8	48	-	24	-	-
PoE Budget	-	-	200 W	240 W	500 W	-	384 W	-	-
Switch Capacity	320 Gbps	160 Gbps	120 Gbps	80 Gbps	176 Gbps		128 Gbps		
MAC Address Table	32 K			16 K	16 K		16 K		
Static Routing, DHCP Server/ Relay, ARP Proxy	•	•	•	•	•	•	•	•	•
Advanced Functions	IPv6, 802.1Q VLAN, Voice VLAN, STP/RSTP/MSTP, IGMP Snooping, ACL / SNMP, IP+MAC+PORT+VID Binding								

	1 GE											FE + GE Uplink
Model	TL-SG3452P	TL-SG3452	TL-SG3428MP	TL-SG3428	TL-SG3210 v3 and above	TL-SG2428P	TL-SG2218	TL-SG2210MP	TL-SG2210P v3.2 and above, except v3.6	TL-SG2008P	TL-SG2008 v3 and above	TL-SL2428P v4.2 and above, except v4.6
RJ45 Ports	48× Gigabit (PoE+)	48× Gigabit	24× Gigabit (PoE+)	24× Gigabit	8× Gigabit	24× Gigabit (PoE+)	16× Gigabit	8× Gigabit (PoE+)	8× Gigabit (PoE+)	8× Gigabit (4× PoE+)	8× Gigabit (including 1 PD Port)	24× 10/100 Mbps (PoE+) + 2× Gigabit
Fiber Ports	4× Gigabit SFP				2× Gigabit SFP	4× Gigabit SFP	2× Gigabit SFP			-	-	2× Gigabit Combo SFP/ RJ45 Port
Console Ports	1 (RJ45) + 1 (Micro-USB)				-	-	-	-	-	-	-	-
Installation	Rackmount				Rackmount / Desktop	Rackmount		Rackmount / Desktop	Desktop / Wall-Mounting			Rackmount
PoE Standards	802.3at/af	-	802.3at/af	-	-	802.3at/af	-	802.3at/af	802.3at/af	802.3at/af	-	802.3at/af
PoE Ports	48	-	24	-	-	24	-	8	8	4	-	24
PoE Budget	384 W	-	384 W	-	-	250 W	-	150 W	61 W	62 W	-	250 W
Switch Capacity	104 Gbps	104 Gbps	56 Gbps	56 Gbps	20 Gbps	56 Gbps	36 Gbps	20 Gbps	20 Gbps	16 Gbps	16 Gbps	12.8 Gbps
MAC Address Table	16 K		16 K (v2 and above), 8 K (v1.x)	16 K (v2.x) 8 K (v1.x)	8 K	16 K (v3) 8 K (other versions)	8 K					
Static Routing, DHCP Server/Relay, ARP Proxy	•	•	•	•	•	•	•	•	•	•	•	•
Advanced Functions	IPv6, 802.1Q VLAN, Voice VLAN, STP/RSTP/MSTP, IGMP Snooping, ACL / SNMP, IP+MAC+PORT+VID Binding											

◆ Omada Routers

Model	ER8411	ER7206	ER605 (v2)
Interface	2× 10GE SFP+ Ports (1 WAN, 1 WAN/LAN) 1× GE SFP WAN/LAN Ports 8× GE RJ45 WAN/LAN Ports 1× RJ45 Console Port 2× USB Ports	6× Gigabit Ports (1× SFP WAN, 1× RJ45 WAN, 2× RJ45 WAN/ LAN, 2× RJ45 LAN)	5× Gigabit RJ45 Ports (1× WAN, 2× WAN/LAN, 2× LAN) 1× USB Port (Connecting 4G/3G Modem as WAN Backup)
Dimensions (W x D x H)	17.3×8.7×1.7 in (440×220×44 mm)	8.9×5.2×1.4 in (226×131×35 mm)	6.2×4.0×1.0 in (158×101×25 mm)
RPS (Redundant Power Supply)	•	-	-
WAN Connection Type	Static/Dynamic IP, PPPoE, PPTP, L2TP		
Lightning Protection	4 KV		
VPN	IPSec, PPTP, L2TP, L2TP over IPSec, OpenVPN, SSL VPN	IPSec, PPTP, L2TP, L2TP over IPSec, OpenVPN	
Concurrent Sessions	1,500,000	150,000	150,000
IPSec VPN Tunnel	300 (TBD)	100	20
PPTP VPN Tunnels	300 (TBD)	50	16
L2TP VPN Tunnels	300 (TBD)	50	16
OpenVPN Tunnels*	300 (TBD)	50	16
SSL VPN Tunnels	300 (TBD)	-	-
Advanced Functions	IPv6, Load Balance, Multi-Net DHCP, 802.1Q VLAN, Static Routing, Policy Routing, URL/Keyword Filter, MAC Filter, Attack Defense, DoS Defense, ARP Inspection, Line Backup		

*These features require the use of Omada Hardware Controller, Software Controller, or Cloud-Based Controller

◆ Omada Integrated Routers

Router + PoE Switch + Controller three-in-one products simplify network deployment and management, which are suitable for SMB and Small office and Home office applications.

Model	ER8410PC-M2	ER7212PC
Interface	2× 10GE SFP+ Ports (1 WAN, 1 WAN/LAN) 4× 2.5GE RJ45 Ports (1 WAN, 3 PoE+ LAN)(TBD) 4× GE RJ45 Ports (4 PoE+ LAN)	2× GE SFP Ports (2 WAN/LAN) 2× GE RJ45 Ports (1 WAN, 1 WAN/LAN) 8× GE RJ45 PoE+ Ports (LAN)
Installation	Rackmount / Desktop	Desktop / Wall-mounting
Lightning Protection	4 KV	
Controller Integrated	•	•
Cloud Access	• (Free)	• (Free)
PoE Standards	802.3at/af	802.3at/af
PoE Ports	7(TBD)	8
PoE Budget	150 W (TBD)	110 W (TBD)
WAN Connection Type	Static/Dynamic IP, PPPoE, PPTP, L2TP	
VPN	IPSec, PPTP, L2TP, L2TP over IPSec, OpenVPN	
Advanced Functions	IPv6, Load Balance, DHCP Server, Multi-Net DHCP, 802.1Q VLAN, Static Routing, Policy Routing, URL/Keyword Filter, MAC Filter, Attack Defense, DoS Defense, ARP Inspection, Line Backup	

◆ Powerful Support

In addition to the high-quality products and solution, TP-Link also provides whole service for complete client satisfaction.

Certification and Training

Enables professional training to develop your skills and gain certification to enhance your business.

SMB Community

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

Technical support and case sharing.
Your direct dialogue with TP-Link.
When it comes to SMB, we know you want to learn more...

Forums   Stories   Knowledge Base

Excellent Pre- and After-Sales Services

After-Sales Services
- Global Call Center Providing Hotline Support
- 24/7 Post-Sales Email Service
- Online SMB Community

Quality of Service
- Replacement and Warranty
- Constant Firmware Updates from Cloud Service

Tech Solutions
- Online Training and Certifications—TPNA & TPNP
- Specialized Support Team Locally and Abroad

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