tp-link

Business Networking

Products Guide

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Business Wi-Fi Solution
Omada Access Points

EAP330 EAP320 EAP245 EAP225 EAP115 EAP110
EAP225-Outdoor EAP110-Outdoor
EAP225-Wall EAP115-Wall

CONTENTS

The TP-Link Switch Family

TP-Link provides a variety of switches for business networking solutions, aiming to provide premium network performance while maintaining a competitive cost. Our products are comprised of Unmanaged Switches, Unmanaged Pro, Easy Smart Switches, Smart Switches, Jetstream L2 Managed Switches, and Jetstream L3 Managed Switches.

TP-Link Switch Solutions

Professional, Reliable and Affordable

TP-Link switches are designed to offer reliable and professional choices to businesses of all sizes. Unmanaged switches are well suited for businesses requiring no management or monitoring of their LAN, smart/L2 switches provide a cost-effective solution for small and medium-sized businesses, and L3 managed switches provide a scalable and stable solution for large organizations, campus networks and ISP networks.

Abundant Advanced Features

An array of L2 features are supported, including 802.1Q tag VLAN, Port Mirroring, STP/RSTP/MSTP, Link Aggregation Control Protocol and 802.3x Flow Control. The switch also provides advanced features for network maintenance, including Loopback Detection and Cable Diagnostics.

10GBase-T Technology

10GBase-T Technology is becoming more common and affordable. Low-Latency, Line-Rate 10G Copper Base-T is backward compatible with Fast Ethernet and Gigabit Ethernet and can automatically negotiate between higher and lower speed connections. Most importantly, 10GBase-T provides a cost-effective method for migrating from your current network to 10G Ethernet by utilizing your existing CAT5e/CAT6 RJ-45 short connections (up to 55m) and CAT6A/CAT7 connections (up to 100m). This reduces cabling complexity and ultimately results in significant savings for customers.

Secure Networking

TP-Link Switches provides IP-MAC-Port Binding, Port Security, Storm control and DHCP Snooping which protect against broadcast storms, ARP attacks, etc. You can protect these attacks more easily than ever before. In addition, the Access Control Lists (ACL, L2 to L4) feature restricts access to sensitive network resources by denying packets based on source and destination MAC address, IP address, TCP/UDP ports and even VLAN ID.

Physical Stacking

With True Physical Stacking Technology, up to 8 units can be stacked with a single IP address. This provides enhanced scalability, simple management, and increased redundancy for high-density deployment. It also supports efficient network expansion in the future.

Enterprise Level and Flexible Management

TP-Link switches support various management features, such as intuitive web-based Graphical User Interface (GUI) or industry-standard Command Line Interface (CLI), either administration traffic can be protected through SSL or SSH encryptions. SNMP (v1/v2c/v3) and RMON support enables the switch to be polled for valuable status information and send traps on abnormal events.

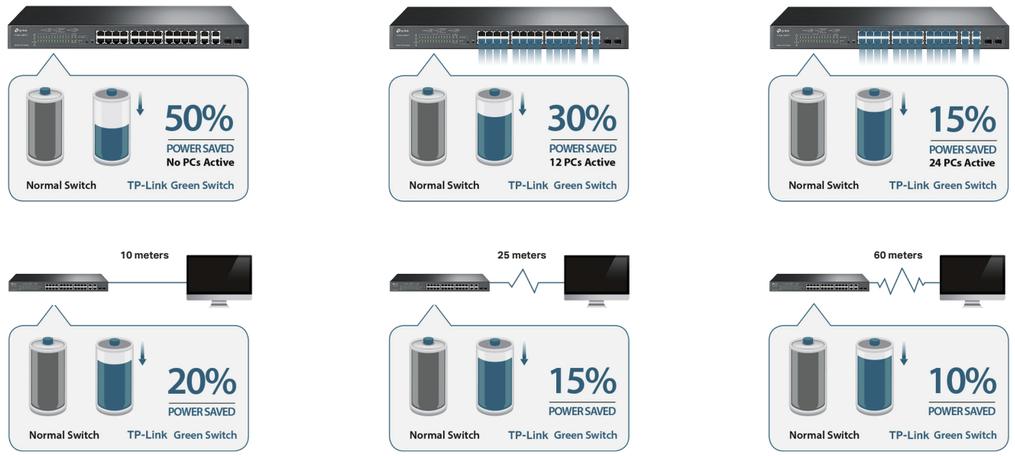
IPv6 Support

IPv6 functions supported are Dual IPv4/IPv6 Stack, MLD Snooping, IPv6 ACL, DHCPv6 Snooping, IPv6 Interface, Path Maximum Transmission Unit (PMTU) Discovery and IPv6 Neighbor Discovery.

*Features mentioned above are supported by specific models. For detailed information, please refer to the detailed specifications.

Green Technology

TP-Link power saving technology helps you build your network with less investment. What's more, TP-Link consciously strives to commit to reducing our own environmental footprint, so as to protect our environment for now and the future.

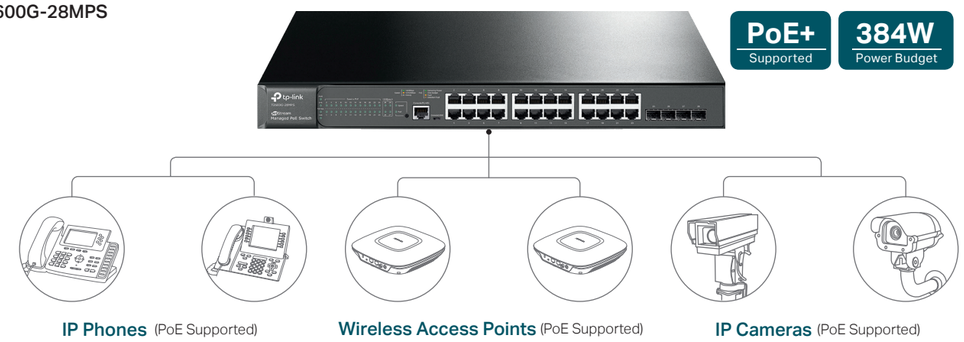


Power Over Ethernet

TP-Link's Power over Ethernet (PoE) switches are specially designed to meet either the 802.3af standard, or the 802.3at PoE+ standard for powering network devices. Electrical power is transmitted along with data in a single cable, allowing users to expand their networks to places where there are no power sockets.

Typical PoE Application

JetStream 24-Port Gigabit L2 Managed PoE+ Switch
with 4 SFP Slots
T2600G-28MPS



Switches

L3 Managed Switches

JetStream T3700 Series

Reliable Solution for Highly Accessible, Scalable and Robust Networks

- Abundant Layer 3 routing protocols including RIP/ OSPF/ECMP/VRRP that support a scalable network
- True Physical Stacking technology supports up to 8 units for high scalability and efficient redundancy
- 10 Gigabit Ethernet uplink provides high-bandwidth applications for congestion relief and smooth data delivery
- Dual removable power units minimize downtime
- PIM-SM/PIM-DM/IGMP Snooping for resilient video deployments

Highlights

TP-Link's L3 switches are designed to build highly accessible, scalable, and robust networks. Our L3 managed switches include T3700G-52TQ and T3700G-28TQ. With physical stacking and Dual Hot-Swappable Power Supply modules, all two provide robust networks with efficient redundancy.

T3700G-52TQ

JetStream 52-Port Gigabit Stackable L3 Managed Switch
48 Gigabit RJ45, 4 Combo Gigabit SFP and 4 10G SFP+, 1 RJ45 Console Port, 1 Micro-USB Console Port, 1 RJ45 Management Port, 19-inch rackmount

T3700G-28TQ

JetStream 28-Port Gigabit Stackable L3 Managed Switch
24 Gigabit RJ45, 4 Combo Gigabit SFP and 4 10G SFP+, 1 RJ45 Console Port, 1 Micro-USB Console Port, 1 RJ45 Management Port, 19-inch rackmount

Features

L2 and L2+ Features

- Static Routing
- RIP v1, v2
- OSPF v2
- PIM-SM/PIM-DM/IGMP
- DHCP Server/Relay
- ARP Proxy
- VRRP

Physical Stacking

- Up to 8 Units Physical Stacking
- Up to 32 Gigabit combo SFP and 16 10G SFP+ slots
- Up to 320Gbps Stacking bandwidth
- Ring Stacking for Link Redundancy
- Distributed Link Aggregation

Layer 2 Features & Security

- AAA
- IP-MAC-Port-VID Binding
- Access Control List (L2~L4 ACL)
- Link Aggregation Control Protocol(LACP)
- 4K VLAN
- IGMP/MLD Snooping
- Quality of Service
- 802.1x and RADIUS/TACACS+ Authentication

Management

- Physical Stacking for Unified Management
- Web-based GUI
- Command Line Interface
- SNMP v1/v2c/v3
- RMON (1, 2, 3, 9 group)
- Dual Image
- IPv6 Management

Product Picture			
Model		T3700G-52TQ V1	T3700G-28TQ V3
Product Description		JetStream 52-Port Gigabit Stackable L3 Managed Switch	JetStream 28-Port Gigabit Stackable L3 Managed Switch
Hardware	Gigabit RJ45 Ports	48	24
	Gigabit SFP Ports	4 (Combo)	
	10G SFP+ Slots	Up to 4 (2 fixed and 2 optional)	
	Console Port	1 (RJ45), 1 (Micro-USB)	
	Management Port	1(RJ45)	
	USB Port	1 USB Storage Slot	
	Standards	IEEE 802.3i, 802.3u, 802.3ab, 802.3z, 802.3ae, 802.3ad, 802.3x, 802.1v, 802.1d, 802.1s, 802.1w, 802.1Q, 802.1x, 802.1p	
	Flow Control	•	
	Power Supply	Dual Hot-swappable Power Supply Module(PSM150-AC) 100-240VAC, 50/60Hz	
	Certifications	CE, FCC	
	Dimensions (W × D × H)	17.3 × 16.5 × 1.7 in. (440 × 420 × 44 mm)	17.3 × 13 × 1.7 in. (440 × 330 × 44 mm)
	Environment	Operating Temperature: 0℃~40℃ (32℉~104℉);Storage Temperature: -40℃~70℃ (-40℉~158℉) Operating Humidity: 10%~90% non-condensing;Storage Humidity: 5%~90% non-condensing	
Physical Stacking	Max Number of Stacking Ports Installable	2 SFP+	
	No. of Units Per Stack	8	
	Stacking Speed (Per Port)	20Gbps (Full-Duplex)	
Performance	Switch Capacity	Up to 176Gbps for a standalone switch	Up to 128 Gbps for a standalone switch
	Forwarding Rate	Up to 130.9Mpps for a standalone switch	Up to 95.2Mpps for a standalone switch
	MAC Address Table	32K	
	Packet Buffer Memory	32 Mbits	
	Number of IP Interfaces	128	
	Number of Routes	8K IPv4	
	Number of Static Routes	256	
	Jumbo Frame	12KB	
L3 Features	Wire-speed IP forwarding	•	
	Static Routing	•	
	RIP	v1/v2	
	OSPF	v2	
	ECMP	•	
	PIM-SM/PIM-DM/IGMP	•	
	DHCP Server/Relay	•	
	ARP Proxy	•	
	VRRP	•	
L2 Features	IGMP Snooping	V1/V2/V3	
	STP/RSTP/MSTP	•	
	Loopback Detection	•	
	QinQ	•	
	VLAN	802.1Q/MAC-based/Protocol-based/GVRP/Private/Voice VLAN	
	QoS	8 Queues,Port/802.1p/DSCP QoS	
	Rate Limit	•	
	Port Isolation	•	
	Port Mirroring	•	
	Link Aggregation	Static LAG / LACP	
	DHCP Snooping	•	
Security	Access Control List	•	
	IP + MAC + Port + VID Binding	•	
	Storm Control	•	
	Port Security	•	
	SSH & SSL	•	
	IP Source Guard	•	
	DoS Defence	•	
	Dynamic ARP Inspection	•	
	IEEE 802.1X Authentication	•	
	Guest VLAN	•	
System Management	SNMP	V1/V2c/V3	
	RMON	Group 1, 2, 3, 9	
	Command Line Interface (CLI)	•	
	Dual Image/Configuration	•	
	LLDP/LLDP-MED	•	
	IPv6	•	
	Firmware Upgrade	•	
	System Diagnose	VCT/CPU Monitor/Ping/Tracert	
	Web Interface/SYSLOG/MIBS	•	

* T3700G-28TQ V3 will be shipped around June 2018.

L2 Managed Switches

Highlights

TP-Link's JetStream T2600 series L2 managed switches provide ideal networking solutions for both small and medium-sized businesses, as well as enterprise networks and campus networks. Features include enterprise-level QoS, advanced security strategies, abundant management features and enhanced L2+/L2 features, such as static routing, OAM, L2PT and sFlow.

JetStream T2600 Series

L2 Managed Solutions for Demanding Networking Applications

- L2+ feature-Static Routing, helps route internal traffic for more efficient use of network resources
- IP-MAC-Port Binding, ACL, Port Security, DoS Defend, Storm control, DHCP Snooping, 802.1X Authentication and Radius provide you robust security strategies
- L2/L3/L4 QoS and IGMP snooping optimize voice and video application
- Web, CLI (Console Port, Telnet, SSH), SNMP, RMON and Dual Image bring abundant management policies

T2600G-28TS (TL-SG3424) /T2600G-52TS (TL-SG3452)

JetStream 24/48-Port Gigabit L2 Managed Switch with 4 SFP Slots
24/48 Gigabit RJ45, 4 Gigabit SFP, 1 RJ45 Console Port, 1 Micro-USB Console Port,19-inch rackmount

T2600G-18TS(TL-SG3216)

JetStream 16-Port Gigabit L2 Managed Switch with 2 SFP Slots
16 Gigabit RJ45, 2 Gigabit SFP, 1 RJ45 Console Port, 1 Micro-USB Console Port, 19-inch rackmount

T2600G-28MPS (TL-SG3424P)

JetStream 24-Port Gigabit L2 Managed PoE+ Switch with 4 SFP Slots
24 Gigabit RJ45 (all ports support 802.3at/af PoE+), 4 Gigabit SFP , 1 RJ45 Console Port, 1 Micro-USB Console Port, 19-inch rackmount

T2600G-28SQ

JetStream 28-Port Gigabit SFP L2 Managed Switch
24 Gigabit SFP, 4 Gigabit Combo RJ45 and 4 10G SFP+,1 RJ45 Console Port, 1 Micro-USB Console Port, 19-inch rackmount

Features

L2 and L2+ Features

- Static Routing (IPv4/IPv6)
- DHCP Relay/Server
- IGMP/MLD Snooping
- VLAN VPN (QinQ)
- GARP VLAN Registration Protocol (GVRP)
- Link Aggregation Group (LAG)
- Layer2 Protocol Tunneling (L2PT)

Quality of Service

- 8 Priority Queues
- IEEE 802.1p Priority
- DSCP QoS
- Rate Limit
- IPv6 QoS
- Voice VLAN

Security Strategies

- AAA
- IP-MAC-Port-VID Binding
- Access Control List (L2~L4 ACL, IPv6 ACL)
- ARP Inspection
- IP Source Guard
- 802.1x and RADIUS/TACACS+ Authentication
- DoS Defend

Management

- Web-based GUI
- Command Line Interface
- Ethernet OAM*
- sFlow*
- SNMP V1/V2c/V3
- RMON (1, 2, 3, 9 group)
- IPv6 Management
- Dual Image

* T2600G-18TS doesn't support these functions.

Product Picture					
Model		T2600G-28SQ V1	T2600G-52TS V3 / T2600G-28TS V3	T2600G-28MPS (TL-SG3424P) V3	T2600G-18TS (TL-SG3216) V2
Product Description		JetStream 28-Port Gigabit SFP L2 Managed Switch	JetStream 48/24-port Gigabit L2 Managed Switch with 4 SFP Slots	JetStream 24-Port Gigabit L2 Managed PoE+ Switch with 4 SFP Slots	JetStream 16-Port Gigabit L2 Managed Switch with 2 SFP Slots
Hardware	Gigabit RJ45 Ports	4 (Combo)	48/24	24, all support PoE+	16
	Gigabit SFP Ports	24	4	4	2
	10G SFP+ Slots	4	-	-	-
	Console Port	1 (RJ45), 1 (Micro-USB)			
	Standards	IEEE 802.3i, 802.3u, 802.3ab, 802.3z, 802.3ad, 802.3x, 802.1Q, 802.1p, 802.1d, 802.1w, 802.1s, 802.1x			
	Flow Control	•			
	Power Supply	100-240VAC, 50/60Hz			
	PoE Power Budget	-		384W	-
	PoE Standard	-		802.3at/af	-
	Fanless	2 Fans	•	2 Fans	•
	Certifications	CE,FCC			
	Dimensions (W × D × H)	17.3 × 8.7 × 1.7 in. (440 × 220 × 44 mm)	17.3 × 8.7 × 1.7 in. (440 × 220 × 44 mm)	17.3 × 13 × 1.7 in. (440 × 330 × 44 mm)	17.3 × 8.7 × 1.7 in. (440 × 220 × 44 mm)
	Environment	Operating Temperature: 0℃~40℃(32℉~104℉); Storage Temperature: -40℃~70℃ (-40℉~158℉) Operating Humidity: 10%~90% non-condensing; Storage Humidity: 5%~90% non-condensing			
Performance	Switching Capacity	128Gbps	104Gbps / 56Gbps	56Gbps	36Gbps
	Forwarding Rate	95.2Mpps	77.4Mpps / 41.7Mpps	41.7Mpps	26.8Mpps
	MAC Address Table	16K			8K
	Jumbo Frame	9KB			
L2+ Features	Static Routing	•			
	DHCP Server/Relay	•			
	ARP Proxy	•			
L2 Features	IGMP Snooping	V1/V2/V3			
	STP/RSTP/MSTP	•			
	Root Guard/Loopback Detection	•			
	QinQ	•			
	VLAN	802.1Q/GVRP/MAC/Protocol/Private*/Voice VLAN			
	QoS	•			
	Rate Limit	•			
	Port Isolation	•			
	Port Mirroring	•			
	Link Aggregation	Static LAG / LACP			
	DHCP Snooping	•			
Security	Access Control List	•			
	IP+MAC+Port+VID Binding	•			
	Strom Control	•			
	SSH & SSL	•			
	IP Source Guard	•			
	DoS Defence	•			
	Dynamic ARP Inspection	•			
	IEEE 802.1X Authentication	•			
System Management	SNMP	•			
	RMON	•			
	Command Line Interface (CLI)	•			
	Dual Image/Configuration	•			
	sFlow	•			-
	Ethernet OAM	•			-
	LLDP/LLDP-MED	•			
	IPv6	•			
	Firmware Upgrade	•			
	System Diagnose	•			
	Web Interface/SYSLOG/MIBS	•			

* T2600G-18TS doesn't support private VLAN.

L2 Managed Switches

JetStream T2500 Series

Ideal Solution for Small and Medium-sized Business Networks

- AAA, ACL, 802.1X Authentication, Port Security, IP Filtering, Storm Control, DHCP Snooping, IP Source Guard and DoS Defend provide you robust security strategy
- DDM provides the monitoring of all SFP Modules inserting to the switch
- L2/L3/L4 QoS and IGMP snooping optimize voice and video application
- SNMP, RMON, WEB/CLI/Telnet Log-in bring abundant management policies

Highlights

TP-Link's JetStream T2500 series L2 managed switches are designed exclusively for the networking needs of growing businesses, with an extensive suite of management features and security functions available. These TP-Link products are cost-effective for small and medium-sized businesses, making them ideal networking solutions.

T2500G-10MPS

JetStream 8-Port Gigabit L2 Managed PoE+ Switch with 2 SFP Slots
8 Gigabit RJ45, 2 Gigabit SFP, 1 RJ45 Console Port, 1 Micro-USB Console Port, 13-inch desktop/rackmount

T2500G-10TS (TL-SG3210)

JetStream 8-Port Gigabit L2 Managed Switch with 2 SFP Slots
8 Gigabit RJ45, 2 Gigabit SFP, 1 RJ45 Console Port, 1 Micro-USB Console Port, 13-inch desktop/rackmount

Features

L2 Features

- Link Aggregation Control Protocol (LACP)
- IGMP/MLD Snooping
- IEEE 802.1Q VLAN
- VLAN VPN (QinQ)
- GARP VLAN Registration Protocol (GVRP)
- STP/RSTP/MSTP

Quality of Service

- 8 Priority Queues
- IEEE 802.1p Priority
- DSCP Priority
- Rate Limit
- Voice VLAN

Security Strategies

- AAA
- IP-MAC-Port-VID Binding
- Access Control List (L2~L4 ACL)
- ARP Inspection
- 802.1x and RADIUS/TACACS+ Authentication
- DoS Defend

Management

- Web-based GUI
- Command Line Interface
- SNMP v1/v2c/v3
- RMON (1,2,3,9 group)
- SNMP V1/V2c/V3
- IPv6 Management

Product Picture			
Model		T2500G-10MPS V2	T2500G-10TS (TL-SG3210) V1
Product Description		JetStream 8-Port Gigabit L2 Managed PoE+ Switch with 2 SFP Slots	JetStream 8-Port Gigabit L2 Managed Switch with 2 SFP Slots
Hardware	Gigabit RJ45 Ports	8, all support PoE+	8
	Gigabit SFP Ports	2	
	Console Port	1 (RJ45), 1 (Micro-USB)	
	Standards	IEEE 802.3i, 802.3u, 802.3ab, 802.3z, 802.3ad, 802.3x, 802.1Q, 802.1p, 802.1d, 802.1w, 802.1s, 802.1x	
	Flow Control	•	
	Power Supply	100-240VAC, 50/60Hz	
	PoE Power Budget	116W	-
	PoE Standard	802.3at/af	-
	Fanless	1 Fan	•
	Certifications	CE, FCC	
	Dimensions (W × D × H)	11.6 × 7.1 × 1.7 in. (294 × 180 × 44 mm)	11.6 × 7.1 × 1.7 in. (294 × 180 × 44 mm)
	Environment	Operating Temperature: 0°C~40°C(32°F~104°F); Storage Temperature: -40°C~70°C (-40°F~158°F) Operating Humidity: 10%~90% non-condensing; Storage Humidity: 5%~90% non-condensing	
Performance	Switching Capacity	20Gbps	
	Forwarding Rate	14.9Mpps	
	MAC Address Table	8K	
	Jumbo Frame	9KB	10KB
L2 Features	IGMP Snooping	V1/V2/V3	
	STP/RSTP/MSTP	•	
	Loopback Detection	•	
	QinQ	•	
	VLAN	802.1Q/GVRP/MAC/Protocol/Voice VLAN	
	QoS	8 Queues, Port/802.1p/DSCP QoS	4 Queues, Port/802.1p/DSCP QoS
	Rate Limit	•	
	Port Isolation	•	
	LACP	•	
	Link Aggregation	Static LAG / LACP	
	Port Mirroring	•	
	DHCP Snooping	•	
Security	Access Control List	•	
	IP + MAC + PORT + VID Binding	•	
	Storm Control	•	
	Port Security	•	
	SSH & SSL	•	
	DoS Defend	•	
	Dynamic ARP Inspection	•	
	IEEE 802.1X Authentication	•	
	Guest VLAN	•	
System Management	SNMP	V1/V2c/V3	
	RMON	Group 1, 2, 3, 9	
	Command Line Interface (CLI)	•	
	LLDP/LLDP-MED	•	
	IPv6	•	
	Firmware Upgrade	•	
	System Diagnose	VCT/CPU Monitor/Ping/Tracert	
	Web Interface/SYSLOG/Public MIBS	•	

JetStream T1700 Series

Affordable 10-Gigabit Switching Solution for Growing SMBs

Highlights

In a world of expanding enterprises and growing virtualization, cloud-based services and applications, like VoIP, HD streaming video, and IP surveillance, SMB networks need to evolve beyond simple reliability to provide increased scalability, higher bandwidth, and enhanced performance. TP-Link's new T1700 Series 10G Smart Switches represent an ideal solution that meets these requirements. The series includes the T1700X-16TS Full 10-Gigabit Smart Switch and the T1700G-28TQ Gigabit Stackable Smart Switch with 10G Uplink, which both provide high levels of performance, scalability, and cost-effectiveness that SMBs require from their 10G networking solutions.

- 10GBase-T Technology provides a cost-effective method for migrating from current network to 10G Ethernet
- True physical stacking supports up to 6 units and 40Gbps bi-directional bandwidth for high scalability and efficient redundancy
- 10G SFP+ ports for stacking and uplink, providing support for high-bandwidth applications for congestion relief and smooth data delivery
- L2+ feature, Static Routing help route internal traffic for more efficient use of network resources

T1700X-16TS

JetStream 12-Port 10GBase-T Smart Switch with 4 10G SFP+ Slots
12 10GBase-T RJ45, 4 10G SFP+, 19-inch rackmount

T1700G-28TQ

JetStream 24-Port Gigabit Stackable Smart Switch with 4 10GE SFP+ Slots
24 Gigabit RJ45, 4 10G SFP+, 19-inch rackmount

Features

L2 and L2+ Features

- Static Routing (IPv4/IPv6)
- IGMP/MLD Snooping
- 4K IEEE 802.1Q VLAN
- GARP VLAN Registration Protocol (GVRP)
- Link Aggregation Group (LAG)

Quality of Service

- 8 Priority Queues
- IEEE 802.1p Priority
- DSCP QoS
- Rate Limit
- IPv6 QoS
- Voice VLAN

Security Strategies

- AAA
- IP-MAC-Port-VID Binding
- Access Control List (L2~L4 ACL, IPv6 ACL)
- ARP Inspection
- 802.1x and RADIUS/TACACS+ Authentication
- DoS Defend

Management

- Web-based GUI
- Command Line Interface
- SNMP V1/V2c/V3
- RMON (1, 2, 3, 9 group)
- IPv6 Management
- Dual Image

Product Picture			
Model		T1700X-16TS V3	T1700G-28TQ V3
Product Description		JetStream 12-Port 10GBase-T Smart Switch with 4 10G SFP+ Slots	JetStream 24-Port Gigabit Stackable Smart Switch with 4 10GE SFP+ Slots
Hardware	Gigabit RJ45 Ports	-	24
	10GBase-T RJ45 Ports	12	-
	10G SFP+ Ports	4	
	Standards	IEEE 802.3i, 802.3u, 802.3ab, 802.3ad, 802.3x, 802.3ae, 802.3an, 802.1Q, 802.1p, 802.1d, 802.1w, 802.1s, 802.1x	
	Flow Control	•	
	Power Supply	100-240VAC, 50/60Hz	
	PoE Power Budget	-	
	Fanless	2 Fans	•
	Certifications	CE, FCC	
	Dimensions (W × D × H)	17.3 × 8.7 × 1.7 in. (440 × 220 × 44 mm)	17.3 × 7.1 × 1.7 in. (440 × 180 × 44 mm)
	Environment	Operating Temperature: 0°C~40°C(32°F~104°F); Storage Temperature: -40°C~70°C (-40°F~158°F) Operating Humidity: 10%~90% non-condensing; Storage Humidity: 5%~90% non-condensing	
Performance	Switching Capacity	320Gbps	128Gbps
	Forwarding Rate	238.1Mpps	95.2Mpps
	MAC Address Table	16K	
	Jumbo Frame	9KB	
Physical Stacking	Max Number of Stacking Ports	-	2 SFP+
	Stacking Units	-	6
L2+ Features	Static Routing	•	
	DHCP Relay	•	
L2 Features	IGMP Snooping	V1/V2/V3	
	STP/RSTP/MSTP	•	
	Loopback Detection	•	
	VLAN	802.1Q/GVRP/MAC/Protocol/Private*/Voice VLAN	
	QoS	8 Queues, Port/802.1p/IP DSCP QoS	
	Rate Limit	•	
	Port Isolation	•	
	Link Aggregation	Static LAG / LACP	
	Port Mirroring	•	
	DHCP Snooping	•	
Security	Access Control List	•	
	IP + MAC + PORT + VID Binding	•	
	Storm Control	•	
	Port Security	•	
	SSH & SSL	•	
	DoS Defense	•	
	Dynamic ARP Inspection	•	
	IEEE 802.1X Authentication	•	
	Guest VLAN	•	
System Management	SNMP	V1/V2c/V3	
	RMON	Group 1, 2, 3, 9	
	Command Line Interface (CLI)	Telnet	
	IPv6	•	
	Dual Image	•	
	Firmware Upgrade	•	
	System Diagnose	VCT/CPU Monitor/Ping/Tracert	
	Web Interface/SYSLOG/Public MIBS	•	

* Private VLAN is only supported by T1700X-16TS

Smart Switches

JetStream T1600 Series

Cost-effective Solution with Enhanced Usability and Exceptional Performance

- Gigabit Ethernet connections on all ports provide full speed of data transferring
- L2+ Feature——Static Routing, helps route internal traffic for more efficient use of network resources
- Integrated security strategy including 802.1Q VLAN, Port Security and Storm control help protect LAN area investment
- L2/L3/L4 QoS and IGMP snooping optimize voice and video applications
- WEB/CLI managed modes, SNMP, RMON and Dual Image bring abundant management features

Highlights

TP-Link's new JetStream Gigabit Smart Switches feature significant upgrades when compared with previous models. Integrated with useful L2 and L2+ features such as static routing, 802.1Q VLAN, QoS, and IGMP Snooping, they provide cost-effective networking solutions for small and medium-sized businesses, offering enhanced usability and better performance.

T1600G-52TS (TL-SG2452)

JetStream 48-Port Gigabit Smart Switch with 4 SFP Slots
48 Gigabit RJ45, 4 Gigabit SFP, 19-inch rackmount

T1600G-28TS (TL-SG2424)

JetStream 24-Port Gigabit Smart Switch with 4 SFP Slots
24 Gigabit RJ45, 4 Gigabit SFP, 19-inch rack-mountable

T1600G-28PS (TL-SG2424P)/T1600G-52PS (TL-SG2452P)

JetStream 24/48-Port Gigabit Smart PoE+ Switch with 4 SFP Slots
24/48 Gigabit RJ45 (all support 802.3at/af PoE+), 4 Gigabit SFP, 19-inch rackmount

T1600G-18TS (TL-SG2216)

JetStream 16-Port Gigabit Smart Switch with 2 SFP Slots
16 Gigabit RJ45, 2 Gigabit SFP, 19-inch rackmount

Features

L2 and L2+ Features

- Static Routing (IPv4/IPv6)
- Link Aggregation Control Protocol (LACP)
- 802.1Q/MAC/Protocol VLAN
- Port Isolation
- STP/RSTP/MSTP
- IGMP/MLD Snooping
- LLDP/LLDP-MED

Quality of Service

- 8 Priority Queues
- IEEE 802.1p Priority
- DSCP Priority
- Rate Limit
- IPv6 QoS
- Voice VLAN

Security Strategies

- AAA
- IP-MAC-Port-VID Binding
- ARP Inspection
- DHCP Snooping
- Access Control List (L2~L4 ACL, IPv6 ACL)
- 802.1x and RADIUS/TACACS+ Authentication
- Port Isolation
- Loopback Detection
- Port Security
- SSL and SSH Encryptions

Management

- Web-based GUI
- Command Line Interface (Telnet)
- SNMP (V1/V2c/V3)
- RMON (1, 2, 3, 9 group)
- IPv6 management
- Dual Image

Product Picture						
Model		T1600G-52PS (TL-SG2452P) V3	T1600G-52TS (TL-SG2452) V3	T1600G-28PS (TL-SG2424P) V3	T1600G-28TS (TL-SG2424) V3	T1600G-18TS (TL-SG2216) V2
Product Description		JetStream 48-Port Gigabit Smart PoE+ Switch with 4 SFP Slots	JetStream 48-Port Gigabit Smart Switch with 4 SFP Slots	JetStream 24-Port Gigabit Smart PoE+ Switch with 4 SFP Slots	JetStream 24-Port Gigabit Smart Switch with 4 SFP Slots	JetStream 16-Port Gigabit Smart Switch with 2 SFP Slots
Hardware	Gigabit RJ45 Ports	48, all support PoE+	48	24, all support PoE+	24	16
	Gigabit SFP Ports	4	4	4	4	2
	Standards	IEEE 802.3i, 802.3u, 802.3ab, 802.3ad, 802.3x, 802.1Q, 802.1p, 802.1d, 802.1w, 802.1s, 802.1x				
	Auto-Negotiation / Auto MDI/MDIX	•				
	Flow Control	•				
	Power Supply	100-240VAC, 50/60Hz				
	PoE Power Budget	384W	-	192W	-	
	PoE Standard	802.3at/af	-	802.3at/af	-	
	Fanless	3 Fans	•	2 Fans	•	
	Certifications	CE, FCC				
	Dimensions (W × D × H)	17.3 × 13 × 1.7 in. (440 × 330 × 44mm)	17.3 × 8.7 × 1.7 in. (440 × 220 × 44 mm)	17.3 × 8.7 × 1.7 in. (440 × 220 × 44 mm)	17.3 × 7.1 × 1.7 in. (440 × 180 × 44 mm)	
	Environment	Operating Temperature: 0℃~40℃(32℉~104℉); Storage Temperature: -40℃~70℃ (-40℉~158℉) Operating Humidity: 10%~90% non-condensing; Storage Humidity: 5%~90% non-condensing				
Performance	Switch Capacity	104Gbps		56Gbps		36Gbps
	Forwarding Rate	77.4Mpps		41.7Mpps		26.8Mpps
	MAC Address Table	16K		8K		
	Jumbo Frame	9KB				
L2+ Features	Static Routing	•				
	DHCP Relay	•				
L2 Features	IGMP Snooping	V1/V2/V3				
	STP/RSTP/MSTP	•				
	Loopback Detection	•				
	VLAN	802.1Q/GVRP/MAC/Protocol/Voice VLAN				
	QoS	8 Queues, Port/802.1p/DSCP QoS				
	Rate Limit	•				
	Port Isolation	•				
	Link Aggregation	Static LAG, LACP				
	Port Mirroring	•				
	DHCP Snooping	•				
Security	Access Control List	•				
	IP + MAC + PORT + VID Binding	•				
	Storm Control	•				
	Port Security	•				
	SSL & SSH	•				
	DoS Defense	•				
	Dynamic ARP Inspection	•				
	IEEE 802.1X Authentication	•				
	Guest VLAN	•				
System Management	SNMP	V1/V2c/V3				
	RMON	Group 1,2,3,9				
	Command Line Interface(CLI)	Telnet				
	IPv6	•				
	Dual Image	•				
	Firmware Upgrade	•				
	System Diagnose	VCT/CPU Monitor/Ping/Tracert				
	Web Interface/SYSLOG/Public MIBs	•				

Smart Switches

JetStream T1500 Series

A Simple, Intelligent Networking Solution for the Access Layer

Highlights

TP-Link's JetStream T1500 Series Smart Switches have been specially developed for the access layer of small and medium networks. Integrated with useful L2 features such as 802.1Q VLAN, QoS, IGMP Snooping, STP, Storm Control and SNMP, TP-Link's T1500 Series provide administrators with simple, cost-effective and yet intelligent networking solutions.

- Integrated security strategy including 802.1Q VLAN, Port Security and Storm control help protect LAN area investment
- L2/L3/L4 QoS and IGMP snooping optimize voice and video applications
- WEB/CLI managed modes, SNMP, RMON bring abundant management features
- Dual Firmware Image improves reliability and up-time of your network

T1500G-10MPS

JetStream 8-Port Gigabit Smart PoE+ Switch with 2 SFP Slots
8 Gigabit RJ45 (all support 802.3at/af PoE+), 2 Gigabit SFP, 13-inch desktop/rackmount

T1500G-10PS (TL-SG2210P)

JetStream 8-Port Gigabit Smart PoE Switch with 2 SFP Slots
8 Gigabit RJ45 (all support 802.3af PoE), 2 Gigabit SFP, desktop design

T1500G-8T (TL-SG2008)

JetStream 8-Port Gigabit Smart Switch
8 Gigabit RJ45 (1 802.3af PD Port), desktop design

T1500-28PCT (TL-SL2428P)

JetStream 24-Port 10/100Mbps + 4-Port Gigabit Smart PoE+ Switch
24 10/100Mbps RJ45 (all support 802.3at/af PoE+), 4 Gigabit RJ45, 2 Combo Gigabit SFP, 19-inch rackmount

Features

Layer 2 Features

- Link Aggregation Control Protocol (LACP)
- 802.1Q VLAN
- Port Isolation
- STP/RSTP/MSTP
- IGMP/MLD Snooping
- LLDP/LLDP-MED

Quality of Service

- 8 Priority Queues
- IEEE 802.1p Priority
- DSCP Priority
- Rate Limit
- Voice VLAN

Security Strategies

- AAA
- IP-MAC-Port-VID Binding
- ARP Inspection
- DHCP Snooping
- Access Control List (L2~L4 ACL)
- 802.1x and RADIUS/TACACS+ Authentication
- Loopback Detection

Management

- Web-based GUI
- Command Line Interface (Telnet)
- SNMP (V1/V2C/V3)
- RMON (1, 2, 3, 9 group)
- Dual Image

Product Picture					
Model		T1500G-10MPS V2	T1500G-10PS (TL-SG2210P) V2	T1500G-8T (TL-SG2008) V2	T1500-28PCT (TL-SL2428P) V3
Product Description		JetStream 8-Port Gigabit Smart PoE+ Switch with 2 SFP Slots	JetStream 8-Port Gigabit Smart PoE Switch with 2 SFP Slots	JetStream 8-Port Gigabit Smart Switch	JetStream 24-Port 10/100Mbps + 4-Port Gigabit Smart Switch
Hardware	10/100Mbps RJ45 Ports	-			24, all support PoE+
	Gigabit RJ45 Ports	8, all support PoE+	8, all support PoE	8, including 1 PD port	4
	Gigabit SFP Ports	2	2	-	2 (Combo)
	Standards	IEEE 802.3i, 802.3u, 802.3ab, 802.3ad, 802.3x, 802.3af*, 802.3at*, 802.1Q, 802.1p, 802.1d, 802.1w, 802.1s, 802.1x			
	Flow Control	•			
	Power Supply	100-240VAC 50/60Hz	48VDC/1.25A External Adapter	12VDC/1A External Adapter	100-240VAC, 50/60Hz
	PoE Power Budget	116W	53W	-	192W
	PoE Standard	802.3at/af	802.3af	-	802.3at/af
	Fanless	1 Fan	•	•	2 Fans
	Certifications	CE, FCC			
	Dimensions (W × D × H)	11.6 × 7.1 × 1.7 in. (294 × 180 × 44 mm)	8.2 × 4.9 × 1.0 in. (209 × 126 × 26 mm)	8.2 × 4.9 × 1.0 in. (209 × 126 × 26 mm)	17.3 × 8.7 × 1.7 in. (440 × 180 × 44 mm)
	Environment	Operating Temperature: 0°C~40°C(32°F~104°F); Storage Temperature: -40°C~70°C (-40°F~158°F) Operating Humidity: 10%~90% non-condensing; Storage Humidity: 5%~90% non-condensing			
	Switching Capacity	20Gbps		16Gbps	12.8Gbps
	Forwarding Rate	14.9Mpps		11.9Mpps	9.5Mpps
	MAC Address Table	8K			
	Jumbo Frame	9KB			
L2 Features	IGMP Snooping	V1/V2/V3			
	STP/RSTP/MSTP	•			
	Loopback Detection	•			
	VLAN	802.1Q/GVRP/MAC/Protocol/Voice VLAN			
	QoS	8 Queues,Port/802.1p/DSCP QoS			
	Rate Limit	•			
	Port Isolation	•			
	Link Aggregation	Static LAG, LACP			
	Port Mirroring	•			
	DHCP Snooping	•			
Security	Access Control List	•			
	IP + MAC + Port + VID Binding	•			
	Storm Control	•			
	Port Security	•			
	SSL & SSH	•			
	DoS Defense	•			
	Dynamic ARP Inspection	•			
	IEEE 802.1X Authentication	•			
	Guest VLAN	•			
System Management	SNMP	V1/V2c/V3			
	RMON	Group 1,2,3,9			
	Command Line Interface(CLI)	Telnet			
	LLDP/LLDP-MED	•			
	IPv6	•			
	Firmware Upgrade	•			
	System Diagnose	VCT/CPU Monitor/Ping/Tracert			
	Web Interface/Syslog/Public MIBS	•			

* Only for PoE models

Switches

Easy Smart Switches

Easy Smart Switches

A Simple and Cost-Effective Networking Solution for Small Businesses

Highlights

TP-Link Easy Smart Switches are the perfect upgrade from Unmanaged Switches. Configuration is simple with the Easy Smart Configuration Utility management software, while the switch is equipped with many basic practical features including Port-based/Tag-based/MTU VLAN, QoS and IGMP Snooping. Easy Smart Switches provide network administrators with a simple and cost-effective networking solution for small business networks.

- Provides network monitoring, traffic prioritization and VLAN features
- Innovative energy-efficient technology reduces power output by up to 18%
- Simple network set-up on top of plug-and-play connectivity
- Web-based user interface and management utility simplify configuration

TL-SG1024DE/TL-SG1016DE
24/16-Port Gigabit Easy Smart Switch
24/16 Gigabit RJ45, 13-inch desktop/rackmount

TL-SG1016PE/TL-SG108PE
16/8-Port Gigabit Easy Smart Switch with 8/4-Port PoE+/PoE
16/8 Gigabit RJ45 (Port 1 to Port 8/4 support 802.3at/af PoE+*), 13-inch desktop/rackmount for TL-SG1016PE, desktop design for TL-SG108PE

Product Picture				
Model		TL-SG1024DE	TL-SG1016PE/TL-SG108PE	TL-SG1016DE
Product Description		24-Port Gigabit Easy Smart Switch	16/8-Port Gigabit Easy Smart Switch with 8/4-Port PoE+/PoE	16-Port Gigabit Easy Smart Switch
Hardware	Gigabit RJ45 Ports	24	16/8, Port 1~8/4 support PoE+/PoE	16
	Standards	IEEE 802.3i, 802.3u, 802.3ab, 802.3x, 802.1q, 802.1p		
	Flow Control	•		
	Power Supply	100-240VAC, 50/60Hz	TL-SG1016PE: 100-240VAC, 50/60Hz TL-SG108PE: External Power Adapter (Output: 48VDC / 1.25A)	100-240VAC, 50/60Hz
	PoE Power Budget	-	110W / 55W	-
	PoE Standard	-	802.3af/at / 802.3af	-
	Fanless	•	- / •	•
	Certifications	CE, FCC		
	Dimensions (W × D × H)	11.6 × 7.1 × 1.7 in. (294 × 180 × 44 mm)	TL-SG1016PE: 11.6 × 7.1 × 1.7 in. (294 × 180 × 44 mm) TL-SG108PE: 6.2× 4.0× 1.0 in. (158× 101× 25 mm)	11.6 × 7.1 × 1.7 in. (294 × 180 × 44 mm)
	Environment	Operating Temperature: 0°C~40°C (32°F~104°F); Storage Temperature: -40°C~70°C (-40°F~158°F) Operating Humidity: 10%~90% non-condensing; Storage Humidity: 5%~90% non-condensing		
Performance	Switching Capacity	48Gbps	32Gbps / 16Gbps	32Gbps
	Forwarding Rate	35.7Mpps	23.8Mpps / 11.9Mbps	23.8Mpps
	MAC Address Table	8K	8K / 4K	8K
	Jumbo Frame	10KB	10KB / 16KB	10KB
Software Features	IGMP Snooping	v1/v2/v3		
	Link Aggregation (Static LAG)	•		
	Port Mirroring	•		
	Cable Test	•		
	Loop Prevention	•		
	VLAN	MTU/Port/802.1Q VLAN		
	QoS	4 Queues/Port/802.1p/DSCP		
	Rate Limit	•		

* TL-SG108PE only supports 802.3af

Switches

Unmanaged Pro Switches

Unmanaged Pro Switches

Plug & Play and Additional Features, Making It Ideal for Both Home and Small Business Environment

Highlights

TP-Link Unmanaged Pro Switches are the perfect upgrade from Unmanaged Switches. Configuration is simple via web user interface and management utility. Plug & Play and many additional software features including Port-based/Tag-based/MTU VLAN, QoS, and IGMP Snooping, make Unmanaged Pro Switches ideal for both home and small business environment.

- Plug and Play design, with no configuration required
- Compact form and desk/wall mounting design, suited for different environments
- Auto-negotiation guarantees the highest speed for each port
- Additional software features via simple web user interface and management utility

TL-SG116E/TL-SG108E
16/8-Port Gigabit Unmanaged Pro Switch
16/8 Gigabit RJ45, desktop design

TL-SG105E
5-Port Gigabit Unmanaged Pro Switch
5 Gigabit RJ45, desktop design

Product Picture				
Model		TL-SG116E	TL-SG108E	TL-SG105E
Product Description		16-Port Gigabit Unmanaged Pro Switch	8-Port Gigabit Unmanaged Pro Switch	5-Port Gigabit Unmanaged Pro Switch
Hardware	Gigabit RJ45 Ports	16	8	5
	Standards	IEEE 802.3i, 802.3u, 802.3ab, 802.3x, 802.1q, 802.1p		
	Flow Control	•		
	Power Supply	External Power Adapter (Output: 12VDC / 1A)	External Power Adapter (Output: 9VDC / 0.6A)	
	PoE Power Budget	-		
	PoE Standard	-		
	Fanless	•		
	Certifications	CE, FCC		
	Dimensions (W × D × H)	11.3× 4.4× 1.0 in. (286 × 112 × 25 mm)	6.2 × 4.0 × 1.0 in. (158 × 101 × 25 mm)	3.9 × 3.9 × 1.0 in. (100 × 98 × 25 mm)
	Environment	Operating Temperature: 0°C~40°C (32°F~104°F); Storage Temperature: -40°C~70°C (-40°F~158°F) Operating Humidity: 10%~90% non-condensing; Storage Humidity: 5%~90% non-condensing		
Performance	Switching Capacity	32Gbps	16Gbps	10Gbps
	Forwarding Rate	23.8Mpps	11.9Mpps	7.4Mpps
	MAC Address Table	8K	4K	2K
	Jumbo Frame	10KB	16KB	16KB
Software Features	IGMP Snooping	v1/v2/v3		
	Link Aggregation (Static LAG)	•		
	Port Mirroring	•		
	Cable Test	•		
	Loop Prevention	•		
	VLAN	MTU/Port/802.1Q VLAN		
	QoS	4 Queues/Port/802.1p/DSCP		
	Rate Limit	•		

Gigabit Unmanaged Rackmount Switches

Highlights

TP-Link's Gigabit Unmanaged Switches can improve the speed of your network and backbone connection. They are simple plug and play products, with high performance ports provided that allow for simple and effective expansion of small and medium business networks, making work that bit more efficient.

- Gigabit Ethernet connections on all ports provide full speed of data transferring
- Green Ethernet technology saves power consumption
- IEEE 802.3x flow control provides reliable data transfer
- Support 802.1p/DSCP QoS function
- Plug and play design, with no configuration required

TL-SG1016/TL-SG1024/TL-SG1048
16/24/48-Port Gigabit Rackmount Switch

TL-SG1008/TL-SG1016D/TL-SG1024D
8/16/24-Port Gigabit Desktop/Rackmount Switch

Product Picture						
Model	TL-SG1048	TL-SG1024	TL-SG1016	TL-SG1024D	TL-SG1016D	TL-SG1008
Product Description	48-Port Gigabit Rackmount Switch	24-Port Gigabit Rackmount Switch	16-Port Gigabit Rackmount Switch	24-Port Gigabit Desktop / Rackmount Switch	16-Port Gigabit Desktop / Rackmount Switch	8-Port Gigabit Desktop / Rackmount Switch
Gigabit RJ45 Ports	48	24	16	24	16	8
MAC Address Table	16K	8K				4K
Switching Capacity	96Gbps	48Gbps	32Gbps	48Gbps	32Gbps	16Gbps
Forwarding Rate	71.4Mpps	35.7Mpps	23.8Mpps	35.7Mpps	23.8Mpps	11.9Mpps
Jumbo Frame	12KB	10KB				16KB
Fanless	•					
Green Technology	•					
Auto-Negotiation /Auto MDI/MDIX	•					
802.3X Flow Control & Back Pressure	•					
QoS	-	802.1p/DSCP				
IGMP Snooping	-					•
Transfer Method	Store and Forward					
Power Supply	100-240VAC, 50/60Hz					
Certifications	CE, FCC					
Dimensions (W × D × H)	17.3 x 8.7 x 1.7 in. (440 x 220 x 44 mm)	17.3 x 7.1 x 1.7 in. (440 x 180 x 44 mm)		11.6 × 7.1 × 1.7 in. (294 × 180 × 44 mm)		
Environment	Operating Temperature: 0°C~40°C (32°F~104°F); Storage Temperature: -40°C~70°C (-40°F~158°F) Operating Humidity: 10%~90% non-condensing; Storage Humidity: 5%~90% non-condensing					

Fast Ethernet Unmanaged Rackmount Switches

Highlights

TP-Link's Fast Ethernet Switches are simple plug and play products, with no software configuration required. They are designed to meet the needs of different network connections, making work that bit more efficient. At the same time, the updated products in this series feature green technology that can significantly reduce power consumption, effectively reducing network maintenance costs while protecting the environment.

- Fast Ethernet connections for high speed data transferring
- IEEE 802.3x flow control provides reliable data transfer
- Steel housing, for rack-mounting design
- Auto MDI/MDIX eliminates the need for crossover cables
- Plug and play design, with no configuration required

TL-SF1016/TL-SF1024/TL-SF1048
16/24/48-Port 10/100Mbps Rackmount Switch

TL-SF1016DS/TL-SF1024D
16/24-Port 10/100Mbps Desktop/Rackmount Switch

Product Picture					
Model	TL-SF1048	TL-SF1024	TL-SF1024D	TL-SF1016	TL-SF1016DS
Product Description	48-Port 10/100Mbps Rackmount Switch	24-Port 10/100Mbps Rackmount Switch	24-Port 10/100Mbps Desktop/ Rackmount Switch	16-Port 10/100Mbps Rackmount Switch	16-Port 10/100Mbps Desktop/ Rackmount Switch
10/100Mbps RJ45 Ports	48	24		16	
MAC Address Table	16K	8K			
Switching Capacity	9.6Gbps	4.8Gbps		3.2Gbps	
Forwarding Rate	7.14Mpps	3.57Mpps		2.38Mpps	
Jumbo Frame	10KB	2KB			
Fanless	•				
Green Technology	•				
Auto Negotiation / Auto MDI/MDIX	•				
Flow Control & Back Pressure	•				
Transfer Method	Store and Forward				
Power Supply	100-240VAC, 50/60Hz				
Certifications	CE, FCC				
Dimensions (W × D × H)	17.3 × 7.1 × 1.7in. (440 × 180 × 44mm)		11.6 × 7.1 × 1.7in. (294 × 180 × 44mm)	17.3 × 7.1 × 1.7 in. (440 × 180 × 44 mm)	11.6 × 7.1 × 1.7 in. (294 × 180 × 44 mm)
Environment	Operating Temperature: 0°C~40°C (32°F~104°F); Storage Temperature: -40°C~70°C (-40°F~158°F) Operating Humidity: 10%~90% non-condensing; Storage Humidity: 5%~90% non-condensing				

Switches
Unmanaged Switches

Unmanaged Desktop Switches

Brings Connectivity and Flexibility to Your Desktop

Highlights

TP-Link's Unmanaged Desktop Switches are simple plug & play products, providing an easy way to expand your wired network. Gigabit ports effortlessly speed up your wired connections, while steel housing and a compact design ensure flexible placement. Moreover, with TP-Link green technology, Desktop Switches can effectively reduce power consumption, making them an eco-friendly solution for your home or office network.

- Green Ethernet technology saves power consumption
- IEEE 802.3x flow control provides reliable data transfer
- Compact form and desktop/wall-mounting design, to meet your needs in any circumstance
- Auto MDI/MDIX eliminates the need for crossover cables
- Plug and play design, with no configuration required

TL-SG105/SG1005D/TL-SG108/TL-SG1008D/TL-SG116

5/8/16-Port Gigabit Desktop Switch

TL-SF1005D/TL-SF1008D/TL-SF1016D/TL-SF1024M

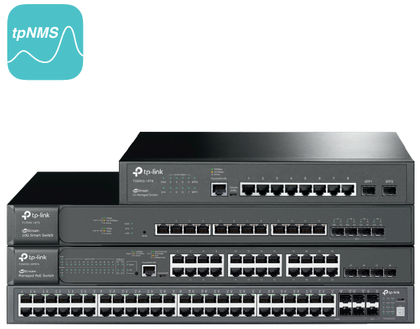
5/8/16/24-Port 10/100Mbps Desktop Switch

Product Picture			
Model	TL-SG105/TL-SG108/TL-SG116	TL-SG1005D/TL-SG1008D	TL-SF1005D/TL-SF1008D/TL-SF1016D/TL-SF1024M
Product Description	5/8/16-Port Gigabit Desktop Switch	5/8-Port Gigabit Desktop Switch	5/8/16/24-Port 10/100Mbps Desktop Switch
Gigabit RJ45 Ports	5/8/16	5/8	-
10/100Mbps RJ45 Ports	-	-	5/8/16/24
MAC Address Table	2K/4K/8K	2K/4K	2K/2K/2K/8K
Switching Capacity	10/16/32Gbps	10Gbps/16Gbps	1.0Gbps/1.6Gbps/3.2Gbps/4.8Gbps
Forwarding Rate	7.4Mpps/11.9Mpps/23.8MPPS	11.9Mpps/7.4Mpps	0.7Mpps/1.2Mpps/2.4Mpps/3.57Mpps
Jumbo Frame	16KB/16KB/10KB	16KB	2KB
Fanless	•		
Green Technology	•		
Auto Negotiation / Auto MDI/MDIX	•		
Flow Control & Back Pressure	•		
QoS	802.1p/DSCP		-
IGMP Snooping	•	-	
Transfer Method	Store and Forward		
Power Supply	External Power Adapter (TL-SG105 & TL-SG108:: 9VDC / 0.6A TL-SG116: 12VDC / 1A)	External Power Adapter (Output: 9VDC / 0.6A)	External Power Adapter (TL-SF1005D & TL-SF1008D: 5VDC / 0.6A TL-SF1016D & TL-SF1024M: 9VDC / 0.6A)
Certifications	CE, FCC		
Housing	Steel Shell	Plastic Shell	
Dimensions (W × D × H)	TL-SG116: : 11.3 x4.4 x 1.0 in. (286 x 112 x 25 mm TL-SG108: 6.2 x 4.0 x 1.0 in. (158 x 101 x 25 mm) TL-SG105: 3.9 x 3.9 x 1.0 in. (100 x 98 x 25 mm)	TL-SG1008D: 7.1 x 3.5 x 1.0 in. (180 x 90 x 25.5 mm) TL-SG1005D: 5.5 x 3.5 x 0.9 in. (140 x 88 x 23 mm)	TL-SF1005D: 4.1 x 2.8 x 0.9 in. (103 x 70 x 22 mm) TL-SF1008D: 5.3 x 3.1 x 0.9 in. (135 x 79 x 23 mm) TL-SF1016D: 7.9 x 5.6 x 1.6 in. (201 x 143 x 41 mm) TL-SF1024M: 8.7 x 5.0 x 1.7 in. (222 x 126 x 42 mm)
Environment	Operating Temperature: 0°C ~40°C (32°F~104°F); Storage Temperature: -40°C ~70°C (-40°F~158°F); Operating Humidity: 10%~90% non-condensing; Storage Humidity: 5%~90% non-condensing		

Network Management System
tpNMS

TP-Link Network Management System

TP-Link Management System (tpNMS) is a comprehensive standards-based management tool designed to centrally manage all TP-Link Smart, L2 and L3 managed switches, as well as discover any third-party network devices that support the SNMP protocol. Flexible and versatile, tpNMS utilizes cutting-edge web technology to make administration and supervision of network switches more convenient than ever before.



Simplified Network Management

Compatible with any managed switch that uses the industry-standard Simple Network Management Protocol (SNMP).

Graphical Monitoring

Robust graphical monitoring charts make complex data more readable so users can stay informed and easily monitor the entire network.

Centralized Firmware Upgrades

Users can implement batch firmware upgrade through tpNMS by adding switches with the same software version to the same device group.

10 Gigabit SFP+ Module and SFP+ Cable

Product Picture			
Model	TX432	TXC432-CU1M	TXC432-CU3M
Product Description	10-Gigabit 2-Port SFP+ Module	1M Direct Attach SFP+ Cable	3M Direct Attach SFP+ Cable
Standard	IEEE 802.3ae, IEEE 802.3aq, SFF-8431	-	
Dimensions/Length	5.2 x 3.6 x 1.2 in. (131 x 92 x 31mm)	1m	3m
Max Power Consumption	6.57W with Fiber	-	
Certifications	CE, FCC		
Data Rate	-	10Gbps	
Environment	Operating Temperature: 0°C~40°C (32°F~104°F); Storage Temperature: -40°C~70°C (-40°F~158°F) Operating Humidity: 10%~90% non-condensing; Storage Humidity: 5%~90% non-condensing		

SFP Modules

Product Picture						
Model	TL-SM311LM	TL-SM311LS	TL-SM321A	TL-SM321B	TXM431-SR	TXM431-LR
Product Description	Multi-mode SFP Module	Single-mode SFP Module	1000Base-BX WDM Bi-Directional SFP module	1000Base-BX WDM Bi-Directional SFP module	10GBase-SR SFP+ LC Transceiver	10GBase-LR SFP+ LC Transceiver
Cable	Multi-mode Fiber	Single-mode Fiber			Multi-mode Fiber	Single-mode Fiber Fiber
Fiber Type	50/125μm or 62.5/125μm Multi-mode	9/125 μm Single-mode			50/125μm or 62.5/125μm Multi-mode	9/125 μm Single-mode
MAX. Cable Length	550m	10km			300m	10km
Standard	IEEE 802.3z				IEEE 802.3ae, SFF-8431, SFF-8472	
Data Rate	1.25Gbps				10Gbps	
Port Type	LC/UPC				LC/UPC	
Wave Length	850nm	1310nm	TX: 1550nm RX: 1310nm	TX: 1310nm RX: 1550nm	850nm	1310nm
Power Supply	3.3V					
Certifications	CE, FCC					
Environment	Operating Temperature: 0°C~40°C (32°F~104°F); Storage Temperature: -40°C~70°C (-40°F~158°F) Operating Humidity: 10%~90% non-condensing; Storage Humidity: 5%~90% non-condensing					

Media Converters

Product Picture							
Model	MC200CM	MC210CS	MC220L	MC100CM	MC110CS	MC111CS	MC112CS
Product Description	Gigabit Ethernet Media Converter	Gigabit Ethernet Media Converter	Gigabit Ethernet Media Converter	Fast Ethernet Media Converter	Fast Ethernet Media Converter	WDM Fast Ethernet Media Converter	WDM Fast Ethernet Media Converter
Interface	1 Gigabit SC Port		1 SFP Port	1 100Mbps SC Port			
	1 10/100/1000Mbps RJ45 Port (Auto MDI/MDIX)			1 10/100Mbps RJ45 Port (Auto MDI/MDIX)			
Standards	IEEE 802.3i, 802.3u, 802.3ab, 802.3z			IEEE 802.3i, 802.3u			
Transmission Media	Multi-mode Fiber, Cat-5	Single-mode Fiber, Cat-5	Multi/Single-mode Fiber, Cat-5	Multi-mode Fiber, Cat-5	Single-mode Fiber, Cat-5		
Wave Length	850nm	1310nm	Depends on the SFP Modules used	1310nm	1310nm	TX:1550nm RX:1310nm	TX:1310nm RX:1550nm
Transmission Distance	0.55km	15km	0.55km /10km	2km	20km		
Certifications	FCC, CE						
Dimensions (W × D × H)	3.7 × 2.9 × 1.1 in. (94.5 × 73.0 × 27.0 mm)						
Enviroment	Operating Temperature: 0°C~40°C (32°F~104°F); Storage Temperature: -40°C~70°C (-40°F~158°F); Operating Humidity: 10%~90% non-condensing; Storage Humidity: 5%~89% non-condensing						

Redundant Power Supply

Product Picture	
Model	PSM150-AC
Product Description	150W AC Power Supply Module
AC Power Input	100-240V~ 50/60Hz 2.5A
DC Power Output	12V/12.5A
Maximum Power Output	150W
LEDs	Power, PS OK, Fault
Dimensions	4.7 x 8.4 x 1.6 in. (120 x 213 x 41.8 mm)
Environment	Operating Temperature: 0°C~40°C (32°F~104°F); Storage Temperature: -40°C~70°C (-40°F~158°F) Operating Humidity: 10%~90% non-condensing; Storage Humidity: 5%~90% non-condensing

Power over Ethernet

TP-Link's Power over Ethernet (PoE) Switches can automatically detect and supply power to IEEE 802.3at/af compliant Powered Devices (PDs). In this setup, electrical power is transmitted along with data in a single cable.

Power over Ethernet

Managed PoE Switches

Managed PoE Switches

JetStream 24-Port Gigabit L2 Managed PoE+Switch with 4 SFP Slots

T2600G-28MPS (TL-SG3424P)

Highlights

TP-Link's Power over Ethernet (PoE) Switches can automatically detect and supply power to IEEE 802.3at/af compliant Powered Devices (PDs). In this setup, electrical power is transmitted along with data in a single cable. Users can expand their network in places where there are no power sockets available, to fixed devices such as APs, IP cameras or IP phones.

- 24 Gigabit RJ45 (all support 802.3at/af PoE+), 4 Gigabit SFP, 1 RJ45 Console port and 1-Micro USB Console port
- Switching capacity: 56Gbps, Forwarding rate: 41.7Mpps
- 384W PoE Power Budget
- 16K MAC Address table and 9KB Jumbo Frame
- 19-inch rack-mountable steel case

T2600G-28MPS (TL-SG3424P)

JetStream 24-port Gigabit L2 Managed PoE+ Switch with 4 SFP Slots
24 Gigabit RJ45 (all support 802.3at/af PoE+), 4 Gigabit SFP, 384W PoE Power Budget, 19-inch Rackmount

T2500G-10MPS (TL-SG3424P)

JetStream 8-Port Gigabit L2 Managed PoE+ Switch with 2 SFP Slots
8 Gigabit RJ45, 2 Gigabit SFP, 1 RJ45 Console Port, 1 Micro-USB Console Port, 13-inch desktop/rackmount

T1600G-52PS (TL-SG2452P)/T1600G-28PS (TL-SG2424P)

JetStream 48/24-Port Gigabit Smart PoE+ Switch with 4 SFP Slots
48/24 Gigabit RJ45 (all support 802.3at/af PoE+), 4 Gigabit SFP, 384/192W PoE Power Budget, 19-inch rackmount

T1500G-10MPS

JetStream 8-Port Gigabit Smart PoE+ Switch with 2 SFP Slots
8 Gigabit RJ45 (all support 802.3at/af PoE+), 2 Gigabit SFP, 116W PoE Power Budget, 13-inch desktop/rackmount

T1500-28PCT (TL-SL2428P)

JetStream 24-Port 10/100Mbps + 4-Port Gigabit Smart PoE+ Switch
24 10/100Mbps RJ45 (all support 802.3at/af PoE+), 4 Gigabit RJ45, 2 Combo Gigabit SFP, 19-inch rackmount

T1500G-10PS (TL-SG2210P)

JetStream 8-Port Gigabit Smart PoE Switch with 2 SFP Slots
8 Gigabit RJ45 (all support 802.3af PoE), 2 Gigabit SFP, 53W PoE Power Budget, desktop design

Product Picture							
Model		T2600G-28MPS (TL-SG3424P) V3	T2500G-10MPS V2	T1600G-52PS (TL-SG2452P) V3	T1600G-28PS (TL-SG2424P) V3	T1500G-10MPS V2/ T1500G-10PS V2	T1500-28PCT (TL-SL2428P) V3
Product Description		JetStream 48/24-Port Gigabit L2 Managed PoE+ Switch with 4 SFP Slots	JetStream 8-Port Gigabit Smart PoE+ Switch with 2 SFP Slots	JetStream 48-Port Gigabit Smart PoE+ Switch with 4 SFP Slots	JetStream 24-Port Gigabit Smart PoE+ Switch with 4 SFP Slots	JetStream 8-Port Gigabit Smart PoE+/PoE Switch with 2 SFP Slots	JetStream 24-Port 10/100Mbps + 4-Port Gigabit Smart PoE+ Switch
Hardware	10/100Mbps RJ45 Ports	-					24, all support PoE+
	Gigabit RJ45 Ports	48/24, all support PoE+	8, all support PoE+	48, all support PoE+	24, all support PoE+	8, all support PoE+/PoE	4
	Gigabit SFP Ports	4	2	4	4	2	2 (Combo)
	Console Port	1 (RJ45), 1 (Micro-USB)		-			
	Standards	IEEE 802.3i, 802.3u, 802.3ab, 802.3ad, 802.3x, 802.1Q, 802.1p, 802.1d, 802.1w, 802.1s, 802.1x					
	Flow Control	•					
	Power Supply	100-240VAC, 50/60Hz				T1500G-10MPS: 100-240VAC, 50/60Hz T1500G-10PS: External Power Adapter (Output: 48VDC / 1.25A)	100-240VAC, 50/60Hz
	PoE Power Budget	384W	116W	384W	192W	116W/53W	192W
	PoE Standard	802.3af/at[1]					
	Fanless	2 Fans	1 Fans	3 Fans	2 Fans	1 Fans / Fanless	2 Fans
	Certifications	CE, FCC					
	Dimensions (W × D × H)	17.3 × 13 × 1.7 in. (440 × 330 × 44 mm)	11.6 × 7.1 × 1.7 in. (294 × 180 × 44 mm)	17.3 × 13 × 1.7 in. (440 × 330 × 44 mm)	17.3 × 8.7 × 1.7 in. (440 × 220 × 44 mm)	11.6 × 7.1 × 1.7in. (294 × 180 × 44mm)/ 8.2 × 4.9 × 1.0 in. (209 × 126 × 26 mm)	17.3 × 8.7 × 1.7 in. (440 × 180 × 44 mm)
	Environment	Operating Temperature: 0℃ ~40℃ (32°F~104°F); Storage Temperature: -40℃ ~70℃ (-40°F~158°F); Operating Humidity: 10%~90% non-condensing; Storage Humidity: 5%~90% non-condensing					
Performance	Switch Capacity	56Gbps	20Gbps	104Gbps	56Gbps	20Gbps	12.8Gbps
	Forwarding Rate	41.7Mpps	14.9Mbps	77.4Mpps	41.7Mpps	14.9Mpps	9.5Mpps
	MAC Address Table	16K	8K	16K	8K		
	Jumbo Frame	9KB					
L2 Features	IGMP Snooping	V1/V2/V3					
	STP/RSTP/MSTP	•					
	Loopback Detection	•					
	QinQ	•					
	VLAN	802.1Q/MAC/Protocol/Private[2]/Voice VLAN					
	QoS	8 Queues, Port/802.1p/IP DSCP QoS					
	Rate Limit	•					
	Port Isolation	•					
	Port Mirroring	•					
	Link Aggregation	Static LAG, LACP					
	DHCP Snooping	•					
Security	Access Control List	•					
	IP+MAC+PORT+VID Binding	•					
	Storm Control	•					
	Port Security	•					
	SSH & SSL	•					
	DoS Defend	•					
	Dynamic ARP Inspection	•					
System Management	SNMP	V1/V2c/V3					
	RMON	Group 1, 2, 3, 9					
	Command Line Interface (CLI)	Telnet					
	Dual Image	•					
	sFlow	•	-				
	Ethernet OAM	•	-				
	LLDP/LLDP-MED	•					
	IPv6	•					
	Firmware Upgrade	•					
	System Diagnose	VCT/Looback Detection/CPU Monitor/Ping/Tracert					
	Web Interface/SYSLOG/ MIBS	•					

[1]T1500G-10PS only supports 802.3af
[2]Only T2600G-28MPS supports private VLAN

Power over Ethernet

Unmanaged / Easy Smart PoE Switches

Unmanaged / Easy Smart PoE Switches

16-Port Gigabit Easy Smart Switch with 8-Port PoE+

TL-SG1016PE

- 16 Gigabit RJ45 ports (Port 1~Port 8 support 802.3at/af)
- Switching capacity: 32Gbps, Forwarding rate: 23.8Mpps
- About 110W PoE Power Budget
- 8K MAC Address Table and 10KB Jumbo Frame
- 13-inch desktop/rack-mountable steel case

Highlights

TP-Link's Power over Ethernet (PoE) Switches can automatically detect and supply power to IEEE 802.3at/af compliant Powered Devices (PDs). In this setup, electrical power is transmitted along with data in a single cable. Users can expand their network in places where there are no power sockets available, to fixed devices such as APs, IP cameras or IP phones.

TL-SG1016PE

16-Port Gigabit Easy Smart Switch with 8-Port PoE+
16 Gigabit RJ45 (Port 1~Port 8 support 802.3at/af PoE+), 110W PoE Power Budget, 13-inch desktop/rackmount

TL-SG108PE

8-Port Gigabit Easy Smart Switch with 4-Port PoE
8 Gigabit RJ45 (Port 1~Port 4 support 802.3af PoE), 55W PoE Power Budget, desktop design

TL-SG1008PE

8-Port Gigabit Desktop/Rackmount Switch with 8-Port PoE+
8 Gigabit RJ45 (All support 802.3at/af PoE+), 126W PoE Power Budget, 13-inch desktop/rackmount

TL-SG1008P

8-Port Gigabit Desktop Switch with 4-Port PoE
8 Gigabit RJ45 (Port 1~Port 4 support 802.3af PoE), 55W PoE Power Budget, desktop design

TL-SF1008P

8-Port 10/100Mbps Desktop Switch with 4-Port PoE
8 10/100Mbps RJ45 (Port 1~Port 4 support 802.3af PoE), 57W PoE Power Budget, desktop design

TL-SG1005P

5-Port Gigabit Desktop Switch with 4-Port PoE
5 Gigabit RJ45 (Port 1~Port 4 support 802.3af PoE), 56W PoE Power Budget, desktop design

TL-SF1005P

5-Port 10/100Mbps Desktop Switch with 4-Port PoE
5 10/100Mbps RJ45 (Port 1~Port 4 support 802.3af PoE), 58W PoE Power Budget, desktop design

Product Picture								
Model		TL-SG1016PE	TL-SG108PE	TL-SG1008PE	TL-SG1008P	TL-SG1005P	TL-SF1008P	TL-SF1005P
Product Description		16-Port Gigabit Easy Smart Switch with 8-Port PoE+	8-Port Gigabit Easy Smart Switch with 4-Port PoE	8-Port Gigabit Desktop/ Rackmount Switch with 8-Port PoE+	8-Port Gigabit Desktop Switch with 4-Port PoE	5-Port Gigabit Desktop Switch with 4-Port PoE	8-Port 10/100Mbps Desktop Switch with 4-Port PoE	5-Port 10/100Mbps Desktop Switch with 4-Port PoE
Hardware	10/100Mbps RJ45 Port	-					8, Port 1~4 support PoE	5, Port 1~4 support PoE
	Gigabit RJ45 Ports	16 (Port 1~8 support PoE+)	8 (Port 1~4 support PoE)	8 (all ports support PoE+)	8 (Port 1~4 support PoE)	5 (Port 1~4 support PoE)	-	
	Standards	IEEE802.3i, 802.3u, 802.3ab, 802.3x, 802.3at, 802.3af,	IEEE802.3i, 802.3u, 802.3ab, 802.3x, 802.3af	IEEE802.3i, 802.3u, 802.3ab, 802.3x, 802.3at, 802.3af	IEEE802.3i, 802.3u, 802.3ab, 802.3x, 802.3af		IEEE802.3i, 802.3u, 802.3x, 802.3af	
	Flow Control	•						
	PoE Power Budget	110W	55W	126W	55W	56W	57W	58W
	PoE Standard	802.3af/at	802.3af	802.3af/at	802.3af			
	Fanless	1 Fan	•	1 Fan	•			
	Certifications	CE, FCC						
	Dimensions (W × D × H)	11.6 × 7.1 × 1.7 in. (294 × 180 × 44 mm)	6.2 × 4.0 × 1.0 in. (158 × 101 × 25 mm)	11.6 × 7.1 × 1.7 in. (294 × 180 × 44 mm)	6.7 × 3.9 × 1.1 in. (171 × 98 × 27 mm)			
	Environment	Operating Temperature: 0°C ~40°C (32°F~104°F); Storage Temperature: -40°C ~70°C (-40°F~158°F); Operating Humidity: 10%~90% non-condensing; Storage Humidity: 5%~90% non-condensing						
Performance	Switch Capacity	32Gbps	16Gbps		16Gbps	10Gbps	1.6Gbps	1.0Gbps
	Forwarding Rate	23.8Mpps	11.9Mpps		11.9Mpps	7.4Mpps	1.2Mpps	0.74Mbps
	MAC Address Table	8K	4K		4K	2K	2K	
	Jumbo Frame	10KB	16KB		16KB		2KB	
Software Features	IGMP Snooping	v1/v2/v3						-
	Link Aggregation (Static LAG)	•		-				
	Port Mirroring	•		-				
	Cable Test	•		-				
	Loop Prevention	•		-				
	VLAN	MTU/Port/802.1Q VLAN		-				
	QoS	4 Queues, Port/802.1p/DSCP		802.1p/DSCP				
	Rate Limit	•		-				
	Strom Control	•		-				
	Firmware Upgrade	•		-				

Power over Ethernet

PoE Adapters

PoE Adapter

PoE Adapter for Simple Energy Supply

Highlights

TP-Link's Power over Ethernet (PoE) Adapters can help deliver your power and data through one Ethernet cable, allowing you to expand your network to those places where there are no power lines or outlets. Among TP-Link's family of PoE Adapters, TL-POE150S and TL-POE10R support 802.3af standard, making them highly compatible with all 802.3af compliant devices.

PoE Injector

TL-POE150S

- Support IEEE 802.3af standard
- Support Gigabit speed
- Auto MDI/MDIX, Auto Negotiation
- LED indicator for PWR, Link/Act
- Desktop design for ultra convenience and flexibility
- Plug and play, no software configuration required

TL-POE150S

PoE Injector

- 802.3af compliant
- Gigabit speed support
- Plug-and-Play

TL-POE10R

PoE Splitter

- 802.3af compliant
- Selectable power output
- Gigabit speed support

TL-POE200

PoE Kit

- Carries power & data over a single Ethernet cable up to 100 meters
- Selectable power output
- Plug-and-Play

TL-POE2412G

PoE Adapter

- Passive PoE
- Gigabit speed support
- Plug-and-Play

Product Picture				
Model	TL-POE150S	TL-POE10R	TL-POE200	TL-POE2412G
Product Description	PoE Injector	PoE Splitter	PoE Kit	PoE Adapter
RJ45 Ports	1 Gigabit RJ45 LAN port 1 Gigabit RJ45 PoE port		1 10/100Mbps RJ45 LAN port 1 10/100Mbps RJ45 PoE port	1 Gigabit RJ45 LAN port 1 Gigabit RJ45 PoE port
Standards	IEEE802.3, IEEE802.3u, IEEE802.3ab, 802.3af; CSMA/CD, TCP/IP		IEEE802.3, IEEE802.3u; CSMA/CD, TCP/IP	IEEE802.3, IEEE802.3u, IEEE802.3u;
Power	Input: 48VDC, 0.5A	Output: 5/9/12VDC	Input: 100-240VAC Output: 12/9/5VDC	Input: 100-240V 0.4A Output: 24V 0.5A
Certifications	CE, FCC			
Dimensions (W × D x H)	3.2 x 2.1 x 0.9 in. (80.8 x 54 x 24 mm)			3.4 x 1.7 x 1.4 in. (85.8 x 43.9 x 35 mm)
Enviroment	Operating Temperature: 0°C ~40°C (32°F~104°F); Storage Temperature: -40°C ~70°C (-40°F~158°F); Operating Humidity: 10%~90% non-condensing; Storage Humidity: 5%~90% non-condensing			

Business Wi-Fi

TP-Link offers both software and hardware controlled Wi-Fi solutions to fit the unique needs of every business. Our Omada solution administers thousands of access points throughout multiple sites, all from a single location with the free Omada Controller software. Our Auranet solution provides the highest levels of secure and reliable network management with the Auranet hardware controller.

Business Wi-Fi

Omada Software Managed Solution

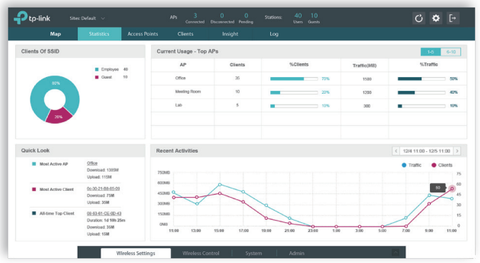
Omada Centralized Management – Anywhere, Anytime

Omada Cloud Controller OC200 and Omada Controller software make it easy to manage and monitor the whole Omada network in real-time, while cloud service enables remote and secure access no matter where you find yourself. Taking control of large-scale network has never been more convenient with the intuitive Omada App offering powerful management fools from the palm of your hand. Best of all, there is no need for IT staff, no special training required and absolutely no license fees.

Easy and Scalable Business Wi-Fi

Convenient and Effective Management

- Free to use, no expensive hardware controller required
- Easy-to-use, no special training necessary
- Scalable Management, allowing for hundreds of Omada APs under one centralized controller
- Regardless of geography, managing Omada APs in multiple sites from a central location

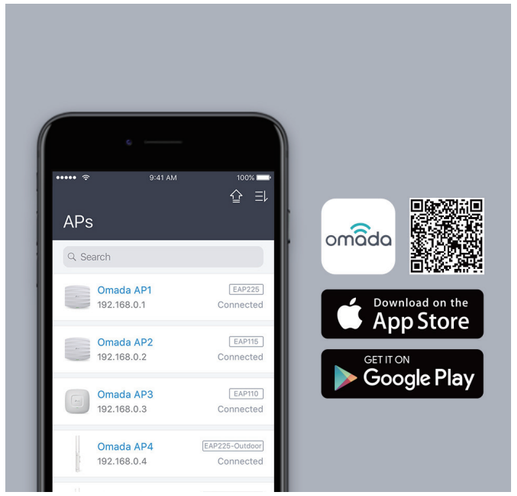


Real-time Status Monitoring

- Visual statistic analytics showing overall network usage and traffic distribution
- Instantly view data traffic and client connections for any individual Omada AP
- Easily monitor the activity of each respective clients
- Effectively provides comprehensive client connection logs and detects rogue APs

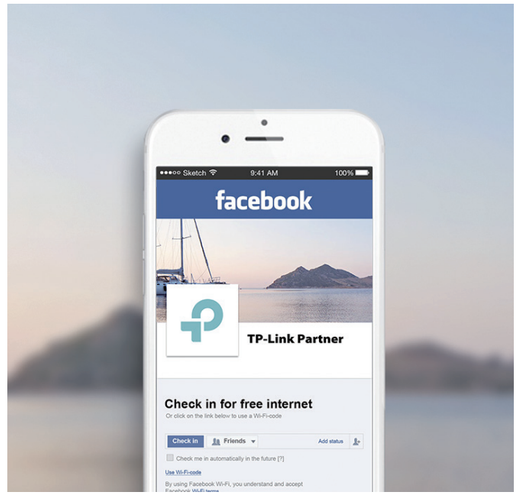
Omada App

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



Guest Access

Captive Portal helps maintain only authorized guests to use the network, presenting devices with a convenient, user-friendly authentication method to grant Wi-Fi access. The addition of SMS and Facebook Wi-Fi simplifies the captive portal even further to simplify connectivity and boost your businesses.



Advanced RF Features for Optimal Performance

Band Steering

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

Airtime Fairness

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

Fast Roaming

Devices switch seamlessly to the access point with the optimal signal as you move between locations.

Beamforming Technology

Beamforming Technology achieves superior Wi-Fi bandwidth utilization and increases Wi-Fi range by creating efficient, highly targeted Wi-Fi connections.

MU-MIMO

Simultaneously sends data to multiple devices for faster speed.

Mesh Technology

Enable wireless connectivity between access points for extended range, making wireless deployments more flexible and convenient.

Ideal for Small and Medium Business

Business Wi-Fi

Omada Software Managed Solution

Omada 802.11ac Access Points

Breakthrough Wi-Fi Speeds Ensure a True Business-Class Experience for High-density Client Environments

Highlights

The TP-Link Omada business Wi-Fi Solution provides a flexible, easy-to-deploy, user-friendly and manageable business-class wireless network solution. Centralized WLAN management is made simple with our free centralized management software – Omada Controller. The 802.11ac Omada EAP Series is a new generation of high-performance products, designed to be easily mounted to a wall, ceiling, pole or ethernet wall jack. Omada 11AC solution is ideal for the demanding multi-user business environments of campuses, hotels, malls and offices.

- Simultaneous Dual Band, with maximum speeds of up to 600/450/300Mbps over 2.4GHz and 1300/867Mbps over 5GHz
- MU-MIMO Technologies, Airtime Fairness, Beamforming, and Band Steering guarantee optimal RF performance for business-level applications
- Supports Power over Ethernet (802.3at/802.3af/ Passive PoE) for flexible deployment
- Ceiling/Wall/Pole mounting design for both indoor and outdoor applications

EAP330/EAP320

AC1900/AC1200 Wireless Dual Band Gigabit Ceiling Mount Access Point

EAP225

AC1350 Wireless MU-MIMO Gigabit Ceiling Mount Access Point

EAP245

AC1750 Wireless Dual Band Gigabit Ceiling Mount Access Point

EAP225-Wall

AC1200 Wireless MU-MIMO Wall-Plate Access Point

EAP225-Outdoor

AC1200 Wireless MU-MIMO Gigabit Indoor/Outdoor Access Point

Features

Wireless Function

- IEEE 802.11a/b/g/n/ac
- Multiple SSIDs
- Transmit Power Control
- QoS (WMM)
- Load Balance
- Band Steering
- MU-MIMO*
- Beamforming*
- Airtime Fairness*
- Wireless Schedule

Wireless Security

- Captive Portal Authentication
- Access Control
- MAC Address Filtering
- Wireless Isolation between Clients
- SSID to VLAN Mapping
- Rogue AP Detection
- 802.1x Support

Centralized Network Management

- Free Controller Software
- L3 Management
- Multi-Site Management
- Automatic Device Discovery
- Centralized Configuration
- Centralized Monitoring
- Unified Firmware Upgrade

*For details of the functions supported by specific products, please refer to the specification sheet.

Product Picture							
Model		EAP330	EAP320	EAP245	EAP225	EAP225-Wall	EAP225-Outdoor
Product Description		AC1900 Wireless Dual Band Gigabit Ceiling Mount Access Point	AC1200 Wireless Dual Band Gigabit Ceiling Mount Access Point	AC1750 Wireless Dual Band Gigabit Ceiling Mount Access Point	AC1350* Wireless MU-MIMO Gigabit Ceiling Mount Access Point	AC1200 Wireless MU-MIMO Wall-Plate Access Point	AC1200 Wireless MU-MIMO Gigabit Indoor/ Outdoor Access Point
Main Design	Wireless Frequency	2.4GHz and 5GHz					
	Compatibility	IEEE 802.11a/b/g/n/ac					
	Maximum Data Rate	Up to 600Mbps(2.4GHz) +1300 Mbps(5GHz)	Up to 300Mbps(2.4GHz) + 867 Mbps(5GHz)	Up to 450Mbps(2.4GHz) +1300 Mbps(5GHz)	Up to 450Mbps(2.4GHz) +867 Mbps(5GHz)*	Up to 300Mbps(2.4GHz) + 867 Mbps(5GHz)	Up to 300Mbps(2.4GHz) + 867 Mbps(5GHz)
	Internal Antennas	2.4GHz: 3*6dBi 5GHz: 3*7dBi	2.4GHz: 2*5dBi 5GHz: 2*6dBi	2.4GHz: 3*3.5dBi 5GHz: 3*4dBi	2.4GHz: 3*4dBi 5GHz: 2*5dBi	2 Dual-Band Antennas 2.4GHz: 2*3dBi 5GHz: 2*4dBi	2 Dual-Band Antennas 2.4GHz: 2*3dBi 5GHz: 2*4dBi
	Transmit Power	CE:<20dBm(2.4GHz), <23dBm(5GHz) FCC:<30dBm					
	Ethernet Ports	Gigabit Ethernet Port*2	Gigabit Ethernet Port*1	Gigabit Ethernet Port*2	Gigabit Ethernet Port*1	Uplink: 10/100Mbps Ethernet Port*1 Downlink: 10/100Mbps Ethernet Port*3	Gigabit Ethernet Port*1
	Power over Ethernet (PoE)	802.3at		802.3af PoE 48V Passive PoE	802.3af and 24V Passive PoE*	Uplink: 802.3at Downlink: one port supports PoE passthrough	802.3af and 24V Passive PoE
Centralized Management	Omada Controller Software	•					
Security	Captive Portal Authentication	• (Facebook Login,SMS Support)					
	Access Control	•					
	Wireless MAC Address Filtering	•					
	Wireless Isolation between Clients	•					
	SSID to VLAN Mapping	•					
	Rogue AP Detection	•					
	802.1X Support	•					
	Encryption	WEP, WPA/WPA2-PSK, WPA/WPA2-Enterprise					
Wireless Function	Multiple SSIDs	16 (8 on each radio)					
	Automatic Channel Assignment	•					
	Transmit Power Control	Adjust Transmit Power on dBm					
	QoS(WMM)	•					
	MU-MIMO	-		•	•		
	Band Steering	•					
	Beamforming / Airtime Fairness	•			•		
	Load Balance	•					
	Rate Limit	•					
	Reboot / Wireless Schedule	•					
Management	Web Interface	•					
	Omada Controller Software	•					
	LED ON/OFF Control	•					
	MAC Access Control	•					
	Telnet	•					
	SNMP	v1,v2c					
	System Logging	Local/Remote Syslog					
	Email Alerts	•					
Hardware	Power Supply	802.3at PoE or external 12VDC/2.5A power supply	802.3at PoE or external 12VDC/1.5A power supply	802.3af PoE or 48V Passive PoE	802.3af PoE or 24V Passive PoE	802.3at PoE	802.3af PoE or 24V Passive PoE
	Max. Power Consumption	17.7 watts	14.03 watts	10.36 watts	12.6 watts	9 watts /25.5 watts (PoE Out Included)	10.5 watts
	Button	Reset Button					
	Watch Dog	•					
	Certification	CE, FCC, RoHS					
	Mounting	Ceiling /Wall mounting (Kits included)				Wall Plate Mouting	Pole/Wall Mounting (Kits included)
	Dimensions (W x D x H)	8.7 × 7.6 × 1.4 in. (220.5 × 193.5 × 36.5 mm)		8.1 × 7.1 × 1.5 in. (205.5 × 181 × 37.1 mm)	8.1 × 7.1 × 1.5 in. (205.5 × 181 × 37.1 mm)	143 × 86 × 19.7mm (5.6 × 3.4 × 0.8 in)	8.5 × 1.8 × 1.1 in. (215 × 46 × 27 mm)
	System Requirements	Microsoft Windows XP, Vista, Windows 7, Windows 8, Windows 10, Linux					
	Environment	Operating Temperature: 0°C~40°C (32°F~104°F);					Operating Temperature: -30°C~70°C (-22°F~158°F)
		Storage Temperature: -40°C~70°C (-40°F~158°F) Operating Humidity: 10%~90% non-condensing; Storage Humidity: 5%~90% non-condensing					

*EAP225 V3 with up to 1350Mbps speeds, supports both 802.3at and Passvie PoE

Business Wi-Fi

Omada Software Managed Solution

Omada 802.11n Access Points

Cost Effective Wi-Fi Solution for Small to Medium-sized Businesses

Highlights

The TP-Link Omada Business Wi-Fi Solution provides a flexible, easy-to-deploy, user-friendly and manageable business-class wireless network solution. Centralized WLAN management is made simple with our free centralized management software – Omada Controller. The 802.11n Omada Access Points support deployment methods including wall, ceiling, pole and in-wall mounting, providing a cost-effective and complete solution for business Wi-Fi networks in numerous application scenarios.

- Supports (Passive) PoE for convenient installation
- Captive portal provides one convenient method of authentication for Wi-Fi guests
- Multi-SSID divides multiple wireless networks for different users
- Supports management vlan for an enhanced network management
- Ceiling/Wall/Pole mounting design for both indoor and outdoor applications

EAP115

300Mbps Wireless N Ceiling Mount Access Point

EAP115-Wall

300Mbps Wireless N Wall-Plate Access Point

EAP110

300Mbps Wireless N Ceiling Mount Access Point

EAP110-Outdoor

300Mbps Wireless N Outdoor Access Point

Features

Wireless Function

- IEEE 802.11b/g/n
- Multiple SSIDs
- Automatic Channel Assignment
- Transmit Power Control
- QoS (WMM)
- Load Balance
- Rate Limit
- Wireless Schedule

Wireless Security

- Captive Portal Authentication
- Access Control
- MAC Address Filtering
- Wireless Isolation between Clients
- SSID to VLAN Mapping
- Rogue AP Detection
- 802.1x Support

Centralized Network Management

- Free Controller Software
- L3 Management
- Multi-Site Management
- Automatic Device Discovery
- Centralized Configuration
- Centralized Monitoring
- Unified Firmware Upgrade

Product Picture					
Model		EAP115	EAP110	EAP115-Wall	EAP110-Outdoor
Product Description		300Mbps Wireless N Ceiling Mount Access Point	300Mbps Wireless N Ceiling Mount Access Point	300Mbps Wireless N Wall-Plate Access Point	300Mbps Wireless N Outdoor Access Point
Main Design	Wireless Frequency	2.4GHz			
	Compatibility	IEEE 802.11b/g/n			
	Maximum Data Rate	Up to 300Mbps			
	Antennas	2*4dBi		2*1.8dBi	2*3dBi (External)
	Transmit power	CE: <19dBm FCC: <21dBm		CE: <20dBm	CE: <20dBm FCC: <22dBm
	Ethernet Ports	10/100Mbps Ethernet Port *1		10/100Mbps Ethernet Port *2	10/100Mbps Ethernet Port *1
	Power over Ethernet (PoE)	802.3af	24V Passive PoE	802.3af	24V Passive PoE
Centralized Management	Omada Controller Software	•			
Security	Captive Portal Authentication	• (Facebook Login,SMS Support)			
	Access Control	•			
	Wireless MAC Address Filtering	•			
	Wireless Isolation between Clients	•			
	SSID to VLAN Mapping	•			
	Rogue AP Detection	•			
	802.1X Support	•			
Wireless Function	Multiple SSIDs	8			
	Automatic Channel Assignment	•			
	Transmit Power Control	Adjust Transmit Power on dBm			
	QoS(WMM)	•			
	Load Balance	•			
	Reboot Schedule	•			
	Wireless Schedule	•			
Management	Web Interface	•			
	EAP Controller Software	•			
	LED ON/OFF Control	•			
	Management MAC Access Control	•			
	Web-Based Management	•			
	Telnet	•			
	SNMP	v1,v2c			
	System Logging	Local/Remote Syslog			
	Email Alerts	•			
Hardware	Power Supply	802.3af PoE or External 9V/ 0.6A Power Supply	24V Passive PoE Power Supply	802.3af PoE	24V Passive PoE Power Supply
	Max. Power Consumption	3.1 watts	2.8 watts	2.8 watts	3.1 watts
	Button	Reset Button			
	Watch Dog	•			
	Certification	CE, FCC, RoHS		CE, RoHS	CE, RoHS, FCC
	Mounting	Ceiling /Wall mounting (Kits included)		Wall Plate Mouting	Pole/Wall Mounting (Kits included)
	Dimensions (W x D x H)	7.5 × 6.8 × 1.2 in. (189.4 × 172.3 × 29.5 mm)		3.4 × 3.4 × 1.2 in. (86.8 × 86.8 × 30.2 mm)	8.5 × 1.8 × 1.1 in. (216 × 46 × 27 mm)
	System Requirements	Microsoft Windows XP, Vista, Windows 7, Windows 8, Windows 10, Linux			
	Environment	Operating Temperature: 0°C~40°C (32°F~104°F)			Operating Temperature: -30°C~65°C (-22°F~149°F)
		Storage Temperature: -40°C~70°C (-40°F~158°F), Operating Humidity: 10%~90% non-condensing, Storage Humidity: 5%~90% non-condensing			

Business Wi-Fi

Omada Software Managed Solution

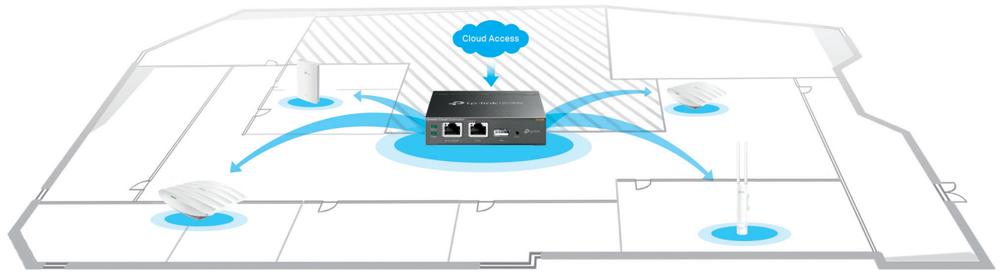
Omada Cloud Controller

OC200

- Hybrid cloud for remote centralized management
- Manage and maintain your network without additional cost
- USB port lets you back up management data to extend drives for guaranteed network stability
- Get connected in minutes with 802.3af/at PoE support

Omada Hybrid Cloud for Centralized Management

Featuring hybrid cloud technology, OC200 allows you to take full control of Omada networks wherever you are in the world, While locally managing Omada access points with ultimate security and stability.



Model		OC200
Product Description Descriptions		Omada Cloud Controller
Main Design	Processor	Marvell 3720
	Memory Information	1GB DDR3
	Storage	4GB EMMC
	Interface	10/100Mbps Ethernet Port*2; USB 2.0 Port*1; Micro USB Port*1
Hardware Design	Power Supply	802.3af PoE or Micro USB (5VDC/Minimum 1A)
	Dimensions	3.9×3.9×1.0in. (100×98×25mm)
	Environment	Operating Temperature: 0℃~40℃ (32℉~104℉), Storage Temperature: -40℃~70℃ (-40℉~158℉), Operating Humidity: 10%~90% non-condensing, Storage Humidity: 5%~90% non-condensing
AP Management	Support AP	TP-Link Omada EAP Series
	Cloud Access	•
	APP Support	•
	Reboot& Wireless Schedule	•
	Auto Backup & Restore	•
	Batch Firmware Upgrade	•
Security	Encryption	WEP/WPA-PSK/WPA2-PSK/WPA/WPA2
	Access Control	•
	SSID to VLAN Mapping	•
	Guest Network	•
Authentication Function	Captive Portal	• (Facebook Login,SMS Support)
	MAC Filtering	•
Wireless Function	Fast Roaming	•
	Band Steering	•
	Load Balance	•
	Rate Limit	• Based on SSID/Client
	Transmit Power Adjustment	•

Business Wi-Fi

Auranet Hardware Managed Solution

Wireless Controller

AC500

- Manage up to 500 CAPs
- 1GHz Dual-core MIPS64 network dedicated processors
- 5 Gigabit Ethernet port
- Automatically discover APs and configure all APs from one access controller with unified configuration.

Product Picture			
Model		AC500	AC50
Product Description		AC500 Wireless Controller	AC50 Wireless Controller
Main Design	Processor	1GHz Dual-core MIPS64 Network dedicated processor	650MHz Network dedicated processor
	Memory Information	256MB DDR3*2, 32MB Flash*2	128MB DDR2*1, 16MB Flash*1
	Interface	Gigabit Ethernet Port*5	10/100Mbps Ethernet Port*5
	Management Scale	Up to 500 APs	Up to 50 APs
Security	Communication protocol	CAPWAP	
	AP Isolation	•	
	SSID Isolation	•	
	SSID to VLAN Mapping	•	
AP Management	Support AP	TP-Link Auranet Access Point	
	AP Automatic Discovery	•	
	AP Unified Configuration	•	
	Reboot Schedule	•	
	Batch Firmware Upgrade	•	
	L3 Management	•	
	AP LED ON/OFF	•	
Monitoring	System	•	
	AP Statistics	•	
	Client Statistics	•	
	Authentication User Statistics	•	
Wireless Function	Load Balance	•	
	Band Steering	•	
	Auto Channel Adjustment	•	
	Transmit Power Adjustment	•	
	WMM	•	
Authentication Function	Captive Portal	•	
	MAC Filtering	•	
System Management	Web-based Management	•	
	Configuration Backup/Import	•	
	Ping/Tracert Tool	•	
	System Log	•	
Hardware Design	Power Supply	100~240V AC, 50/60Hz	
	Dimensions (W × D × H)	17.3 × 8.7 × 1.7 in. (440 × 220 × 44 mm)	8.2 × 5.0 × 1.0 in. (209 × 126 × 26 mm)
	Environment	Operating Temperature: 0℃~40℃ (32℉~104℉), Storage Temperature: -40℃~70℃ (-40℉~158℉), Operating Humidity: 10%~90% non-condensing, Storage Humidity: 5%~90% non-condensing	

Business Wi-Fi

Auranet Hardware Managed Solution

Auranet Hardware Managed Access Point

Secure and Reliable Wi-Fi Solution for Business Environments

Highlights

TP-Link's Auranet Business Wi-Fi Solution provides a scalable, manageable and secure business-class wireless network solution for devices including wireless controllers and access points. The Auranet APs can either be centrally managed by Auranet Wireless Controllers or work as standalone access points. With captive portal and advanced RF management functions, Auranet solution is ideal for the demanding multi-user business environments found in campuses, hotels, malls and offices.

- Supports 802.3at or 802.3af PoE for convenient installation
- Captive portal provides one convenient method of authentication for Wi-Fi guests
- Multi-SSID divides multiple wireless networks for different users
- Supports management vlan for an enhanced network management
- Ceiling/Wall/Pole mounting design for both indoor and outdoor applications

CAP1750
AC1750 Wireless Dual Band Gigabit Ceiling Mount Access Point

CAP1200
AC1200 Wireless Dual Band Gigabit Ceiling Mount Access Point

CAP300
300Mbps Wireless N Ceiling Mount Access Point

CAP300-Outdoor
300Mbps Wireless N Outdoor Access Point

Features

Wireless Function

- IEEE 802.11a/b/g/n/ac
- Multiple SSIDs
- Transmit Power Control
- QoS (WMM)
- Load Balance
- Wireless Schedule
- MU-MIMO*
- Fast Roaming*
- Airtime Fairness*

Wireless Security

- Captive Portal Authentication
- Access Control
- MAC Address Filtering
- Wireless Isolation between Clients
- SSID to VLAN Mapping
- 802.1x Support

Centralized Network Management

- Wireless Controller without license fees
- Automatic Device Discovery
- Centralized Configuration
- Centralized Monitoring
- Unified Firmware Upgrade

*Only CAP1200 supports MU-MIMO, Fast Roaming, Airtime Fairness

Product Picture					
Model		CAP1750	CAP1200	CAP300	CAP300-Outdoor
Product Description		AC1750 Wireless Dual Band Gigabit Ceiling Mount Access Point	AC1200 Wireless Dual Band Gigabit Ceiling Mount Access Point	300Mbps Wireless N Ceiling Mount Access Point	300Mbps Wireless N Outdoor Access Point
Main Design	Wireless Frequency	2.4GHz and 5GHz		2.4GHz	
	Compatibility	IEEE802.11a/b/g/n/ac		IEEE 802.11b/g/n	
	Maximum Data Rate	Up to 450Mbps (2.4GHz)+ 1300 Mbps (5GHz)	Up to 300Mbps (2.4GHz)+ 867 Mbps (5GHz)	Up to 300 Mbps	
	Antennas	2.4GHz: 3*4dBi 5GHz: 3*4dBi	2.4GHz: 2*4dBi 5GHz: 2*5dBi	2*3dBi	2*5dBi (External)
	Ethernet Ports	Gigabit Ethernet Port*1		10/100Mbps Ethernet Port*1	
	Power over Ethernet (PoE)	IEEE 802.3at	IEEE 802.3af		
Centralized Management	Wireless Controller	•			
Security	Captive Portal Authentication	• (Facebook Login,SMS Support)			
	Wireless MAC Address Filtering	•			
	Wireless Isolation between Clients	•			
	SSID to VLAN Mapping	•			
	802.1X Support	•			
	Encryption	WEP, WPA/WPA2-PSK, WPA/WPA2-Enterprise			
Wireless Function	Fast Roaming/MU-MIMO/ Airtime Fairness	-	•	-	
	Multiple SSIDs	16 (8 on each radio)		8	
	Automatic Channel Assignment	•			
	Transmit Power Control	Adjust Transmit Power on dBm			
	Band Steering	•		-	
	Wireless Schedule	•			
	Reboot Schedule	•			
Management	LED ON/OFF Control	•			
	Web-Based Management	•			
	Telnet	•			
	System Logging	Local/Remote Syslog			
	Email Alerts	•			
Hardware	Power Supply	802.3at PoE or external 12VDC/1.5A power supply	802.3af PoE or external 12VDC/1.5A power supply	80.23af PoE or external 9V/0.6A power supply	802.3af PoE
	Button	Fit/Fat Switch, Reset Button			
	Watch Dog	•			
	Certification	CE,FCC,RoHS	CE,RoHS	CE,FCC,RoHS	CE,RoHS
	Mounting	Ceiling/Wall Mounting (Kits included)			Pole/Wall Mounting (Kits included)
	Dimensions (W x D x H)	7.1 × 7.1 × 1.9 in. (180 × 180 × 47.5 mm)			8.2 × 3.7 × 1.7 in. (209 × 95 × 42.6 mm)
	System Requirements	Microsoft Windows XP, Vista, Windows 7, Windows 8, Windows 10			
	Environment	Operating Temperature: 0°C~40°C (32°F~104°F), Storage Temperature: -40°C~70°C (-40°F~158°F), Operating Humidity: 10%~90% non-condensing, Storage Humidity: 5%~90% non-condensing			Operating Temperature: -30°C~65°C (-22°F~149°F), Storage Temperature: -40°C~70°C (-40°F~158°F), Operating Humidity: 10%~90% non-condensing, Storage Humidity: 5%~90% non-condensing

PHAROS

Wireless Broadband

Pharos is TP-Link's latest generation of products designed to provide high performance solutions for outdoor wireless networking applications. Included are CPEs and Base Stations, carrier class antennas, and a centralized management platform, all of which are ideal for point-to-point backhaul and point-to-multipoint outdoor applications.

Pharos Wireless Broadband

Pharos Outdoor Radio

PHAROS Outdoor Radio

High Performance Solution for Wireless Broadband and Outdoor Networking Applications

Highlights

Pharos is TP-Link's latest generation of products designed to provide high performance solutions for outdoor wireless networking applications. Included are CPEs and Base Stations, carrier class antennas, and a centralized management platform, all of which are ideal for point-to-point backhaul and point-to-multipoint outdoor applications. Exceptional performance coupled with a user-friendly design make TP-Link's Pharos solution an ideal choice for both businesses and home users.

- Broad operating frequency channels ensure less wireless interference
- Selectable bandwidth of 5/10/20/40MHz
- Adjustable transmission power
- Free Centralized Management System – Pharos Control
- PoE support for easy deployment
- Weatherproof enclosure, 15KV ESD and 6KV lightning protection

CPE610
5GHz 300Mbps 23dBi Outdoor CPE

WBS510/WBS210
5/2.4GHz 300Mbps Outdoor Wireless Base Station

CPE510
5GHz 300Mbps 13dBi Outdoor CPE

CPE210/CPE220
2.4GHz 300Mbps 9/12dBi Outdoor CPE

Features

Pharos MAXtream — TP-Link's TDMA Technology

- Eliminates hidden node collisions& improves channel efficiency
- Lower latency, higher throughput, larger network capacity & more stability

PharOS — Web-based management platform

- Optimized for outdoor applications with high performance
- User-friendly interface
- Versatile configurations for professionals
- Powerful system tools integrated

Pharos Control — Centralized Network Management Application

- Device discovery & monitoring
- Firmware upgrade & management
- Scheduled tasks for operations & maintenance
- Event notification via E-mail

	300Mbps Wireless N					
	Base Station		CPE			
						
Model	WBS510	WBS210	CPE610	CPE510	CPE210	CPE220
Description	5GHz 300Mbps Outdoor Wireless Base Station	2.4GHz 300Mbps Outdoor Wireless Base Station	5GHz 300Mbps 23dBi Outdoor CPE	5GHz 300Mbps 13dBi Outdoor CPE	2.4GHz 300Mbps 9dBi Outdoor CPE	2.4GHz 300Mbps 12dBi Outdoor CPE
Memory Information	64MB DDR2, 8MB Flash					
Compatibility	802.11a/n	802.11 b/g/n	802.11 a/n	802.11a/n	802.11 b/g/n	802.11 b/g/n
Fruquency	5.15~5.85GHz	2.4~2.483GHz	5.15~5.85GHz	5.15~5.85GHz	2.4~2.483GHz	2.4~2.483GHz
Antenna	-	-	23dBi	13dBi	9dBi	12dBi
External Antenna Interface	2 RP-SMA connectors for MIMO antenna		-			
Transmission Power	27dBm		27dBm	25dBm	25dBm	30dBm
Weatherproof Enclosure	•					
ESD Protection	15KV					
Lightning Protection	6KV					
MIMO	•					
Dual Ethernenet Ports	10/100Mbps Ethernet Port * 2		10/100Mbps Ethernet Port * 1	10/100Mbps Ethernet Port * 1	10/100Mbps Ethernet Port * 1	10/100Mbps Ethernet Port * 2
Grounding Protection Terminal	•					
Power Supply Method	24V Passive PoE Adapter					
Operation Modes	AP / Client / Bridge / Repeater/ AP Router / AP Client Router (WISP)					
Advanced Functions	MAXtream TDMA Technology (Time Division Multiple Access)					
Remote Management	Central Network Management Applications; Web-based GUI management; SNMP V2c					
Utilities	Spectrum Analyzer; Wireless Statistics; Antenna Adjustment; Distance Adjustment; Ping Watch Dog; Throughput Monitor; Wireless Speed Monitor					
Certifications	CE,FCC, RoHS, IP65		CE,FCC, RoHS, IP65	CE,FCC, RoHS, IPX5		
Dimensions (W × D × H)	7.8 × 3.0 × 1.6 in. (198 × 75 × 40 mm)		14.4 × 11 × 8.1 in. (366 × 280 × 207 mm)	8.8 × 3.1 × 2.4 in. (224.3 × 79 × 60.3 mm)		10.9 × 3.1 × 2.4 in. (275.8 × 79 × 60.4 mm)
Environment	Operating Temperature: -40°C~70°C (-40°F~158°F), Storage Temperature: -40°C~70°C (-40°F~158°F), Operating Humidity: 10%~90% non-condensing, Storage Humidity: 5%~90% non-condensing					

MIMO Antennas

Product Picture				
Model	TL-ANT2424MD	TL-ANT2415MS	TL-ANT5819MS	TL-ANT2410MO
Description	2.4GHz 24dBi 2 x 2 MIMO Dish Antenna	2.4GHz 15dBi 2 × 2 MIMO Sector Antenna	5GHz 19dBi 2 × 2 MIMO Sector Antenna	2.4GHz 10dBi 2x2 MIMO Omni Antenna
Frequency	2.3~2.7GHz	2.3~2.7GHz	5.0~6.0GHz	2.4~2.48GHz
Gain	24dBi	15dBi	19dBi	10dBi
VSWR	≤2			
Polarization	Vertical & Horizontal			
HPOL Beamwidth (3dB)	6°	120°(6dB) & 90°	120°(6dB) & 90°	360°
VPOL Beamwidth (3dB)	6°	120°(6dB) & 90°	120°(6dB) & 90°	360°
Elevation Beamwidth (3dB)	6°	8°	4°	12°
Antenna Interfaces	2 RP-SMA Female connectors			
Dimensions	Φ 650 × 360 mm	700 × 140 × 57 mm		76 × 800 mm
Installation	Pole Mounting Kits			

Antennas

Product Picture				
Model	TL-ANT2409A	TL-ANT2414A	TL-ANT2412D /TL-ANT2415D	TL-ANT2424B
Frequency	2.4GHz	2.4GHz	2.4GHz	2.4GHz
Gain	9dBi	14dBi	12dBi/15dBi	24dBi
Type	Directional	Directional	Omni	Directional
VSWR (MAX.)	1.92:1	1.92:1	≤2	1.5:1
HPBW/H (°)	60	30	360	14
HPBW/V (°)	76	30	12/9	10
Polarization	Linear;Vertical	Linear;Vertical	Linear;Vertical	Linear;Vertical
Connector Type	RP-SMA Male Connector	RP-SMA Male Connector	N Female	N Female
Cable Material	CFD-200	CFD-200	N/A	N/A
Cabe Length	100cm	100cm	N/A	30cm
Mounting	Pole Mount Wall Mount	Pole Mount Wall Mount	Pole Mount Wall Mount	Pole Mount
Application	Indoor/Outdoor	Indoor/Outdoor	Outdoor	Outdoor
Optional Accessory	TL-ANT24EC3S TL-ANT24EC5S	TL-ANT24EC3S TL-ANT24EC5S	TL-ANT24PT3	TL-ANT24PT3

Antenna Accessories

Product Picture				
Model	TL-ANT24EC3S	TL-ANT24EC5S	TL-ANT24PT3	TL-ANT200PT
Product Description	Extension Cable	Extension Cable	Pigtail Cable	Pigtail Cable
Frequency	2.4GHz	2.4GHz	2.4GHz	2.4GHz & 5GHz
Connector Type	RP-SMA Male to Female	RP-SMA Male to Female	RP-SMA male to N Male	RP-SMA Male to N Male
Cable Material	CFD-200	CFD-200	CFD-200	LMR-200
Cable Length	3m	5m	3m	0.5m

SafeStream Router

Keeping a network safe from attacks and unauthorized access is key to the success of any business, now more than everbefore. TP-Link's SafeStream VPN Routers provide an ideal VPN solution to protect your network against attacks and unauthorized access.

SafeStream VPN Routers

SafeStream Gigabit VPN Routers

Flexible and Highly secure VPN Networks for Small and Medium-sized Businesses

Highlights

Keeping a network safe from attacks and unauthorized access is key to the success of any business, now more than ever before. TP-Link's SafeStream VPN Routers provide an ideal VPN solution to protect your network against attacks and unauthorized access. Among them, TL-ER6120 and TL-ER6020 are the ideal choices for small and medium-sized businesses, hotels and other communities with a high volume of users demanding an efficient and highly secure VPN network.

- Supports multiple VPN protocols including IPsec/PPTP/L2TP, helping users to establish VPN connections more flexibly
- Supports IPsec VPN tunnels with a hardware-based VPN engine
- Captive portal provides a convenient method for guest authentication
- Abundant features including load balance, bandwidth control and access control
- Professional 4KV lightning protection keeps your investments as safe as possible

TL-ER6120

SafeStream Gigabit Multi-WAN VPN Router
Rackmount, 1 Gigabit WAN Port,
3 Gigabit WAN/LAN Ports,
1 Gigabit LAN Port

TL-ER6020

SafeStream Gigabit Multi-WAN VPN Router
Rackmount, 1 Gigabit WAN Port,
3 Gigabit WAN/LAN Ports,
1 Gigabit LAN Port

TL-R600VPN

SafeStream Gigabit Multi-WAN VPN Router
Desktop, 1 Gigabit WAN Port,
3 Gigabit WAN/LAN Ports,
1 Gigabit LAN Port

Features

VPN Features

- VPN Protocol: IPsec, PPTP, L2TP, L2TP over IPsec
- DES, 3DES, AES128, AES192, AES256 Encryption
- MD5, SHA1 Authentication

Security

- URL/Keywords Filtering
- Web Content Filtering
- (Java, ActiveX, Cookies)
- IP-MAC Binding
- DoS/DDoS Defense

Networking

- Static Routing / Policy Routing
- Intelligent Load Balance
- 802.1Q VLAN
- Port VLAN, Port Mirroring
- IPTV
- IPv6
- SNMP V1/V2C

Bandwidth Management

- IP-based Bandwidth Control
- Guarantee/Limited Bandwidth
- Management
- Port-based Rate Limit
- IP-based Session Limit

Product Picture				
Model		TL-ER6120	TL-ER6020	TL-R600VPN
Product Description		SafeStream Gigabit Multi-WAN VPN Router	SafeStream Gigabit Multi-WAN VPN Router	SafeStream Gigabit Multi-WAN VPN Router
Hardware	Interface	1 Gigabit WAN port, 3 Gigabit WAN/LAN ports, 1 Gigabit LAN port		
	VPN Encryption Accelerator	•		-
	Power Supply	100-240VAC, 50/60Hz		100-240VAC, 50/60Hz
	Certifications	CE, FCC		
	Dimensions (W x D x H)	17.3x7.1x1.7 in. (440x180x44 mm)	11.6 × 7.1 × 1.7 in. (294 × 180 × 44 mm)	8.2 × 4.9 × 1.0 in. (209 × 126 × 26 mm)
	Environment	Operating Temperature: 0°C~40°C (32°F~104°F); Storage Temperature: -40°C~70°C (-40°F~158°F); Operating Humidity: 10%~90% non-condensing; Storage Humidity: 5%~90% non-condensing		
Performance	Concurrent Sessions	150,000	40,000	20,000
	NAT Throughput	800Mbps	940Mbps	680Mbps
	IPsec VPN Throughput	187Mbps	99Mbps	13Mbps
	WAN Connection Type	Dynamic/Static IP, PPPoE, PPTP, L2TP, Dual Access, BigPond		Dynamic/Static IP, PPPoE, PPTP, L2TP, Dual Access, BigPond
IPsec VPN	IPsec VPN Tunnel	100	64	20
	Authentication	MD5/SHA1		
	Encryption	DES, 3DES, AES128, AES192, AES256		
	IPsec NAT Traversal (NAT-T)	•		
	Dead Peer Detection (DPD)	•		
	Perfect Forward Secrecy (PFS)	DH1/DH2/DH5		
PPTP VPN	PPTP VPN Tunnels	50	16	
	PPTP VPN Server	•		
	PPTP VPN Client	•		
	PPTP With MPPE Encryption	•		
L2TP VPN	L2TP VPN Tunnels	50	16	
	L2TP VPN Server	•		
	L2TP VPN Client	•		
	L2TP Over IPsec	•		
Security	Access Control List	•		
	URL/Keyword Filter	•		
	Domain Filter	•		
	DoS Defense	•		
	ARP Inspection	•		
	MAC Filter	•		
Load Balance	Line Backup	•		
	Online Detection	•		
	Smart Load Balance	•		
NAT	One-to-One NAT	•		
	Multiple-nets NAT	•		
	Virtual Server	•		
	Port Triggering	•		
	ALG	•		
Routing	Static Routing	•		
	Policy Routing	•		
QoS	Guarantee Max & Min Bandwidth	•		
	Bandwidth Control By IP/Port	•		
	Session Limit By IP	•		
Web Authentication	Local User Authentication	•		
	Radius Sever Authentication	•		
	Onekey Online	•		
Service	Dynamic DNS	Dyndns, No-IP, Peanuthull, Comexe		
	UPnP	•		

Load Balance Broadband Routers

Load Balance Broadband Router

Suitable for demanding enterprise environment with large volumes of users

- Load Balancing automatically selects the best route to the destination according to the load
- Captive portal provides convenient guest authentication while promoting your business
- Abundant security features including ARP Inspection, DoS Defense, URL/Keyword Domain Filter and Access Control
- Professional 4KV lightning protection keeps your investment safe

Highlights

A load balance broadband router from TP-Link, TL-ER5120 possesses excellent data processing capabilities and multiple powerful functions including Load Balance, Access Control, IM/P2P Blocking, DoS Defense, Bandwidth Control and Session Limit, which meet the needs of small and medium enterprises, hotels and communities with large volumes of users.

TL-ER5120

Gigabit Load Balance Broadband Router
Rackmount, 1 fixed Gigabit WAN Port,
1 fixed Gigabit LAN Port,
3 freely interchangeable Gigabit WAN/LAN Ports

TL-R480T+

Load Balance Broadband Router
Rackmount, 1 fixed 10/100Mbps WAN Port,
1 fixed 10/100Mbps LAN Port,
3 freely interchangeable 10/100Mbps WAN/LAN Ports

TL-R470T+

Load Balance Broadband Router
Desktop, 1 fixed 10/100Mbps WAN Port,
1 fixed 10/100Mbps LAN port,
3 freely interchangeable 10/100Mbps WAN/LAN Ports

Features

Networking

- Static Routing / Policy Routing
- Captive Portal
- Intelligent Load Balance
- 802.1Q VLAN, Port Mirror*
- IPTV
- IPv6

Security

- One-to-One NAT, Multi-Nets NAT
- FTP/H.323/SIP/PPTP ALG
- URL/Keywords Filtering
- Web Content Filtering
- ARP Inspection
- DoS/DDoS Defense

Bandwidth Management

- IP-based Bandwidth Control
- Limited Bandwidth
- Management
- IP-based Session Limit

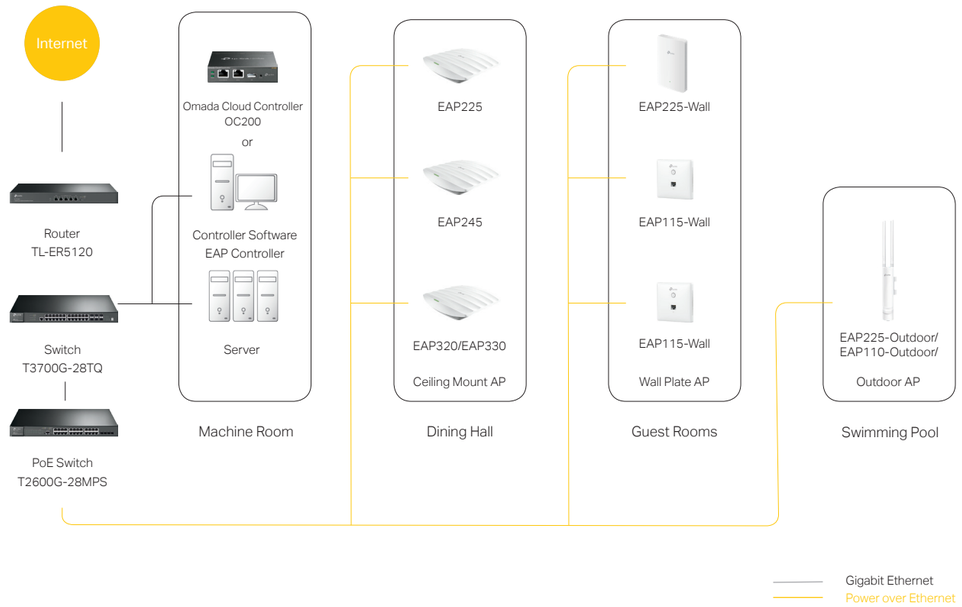
*Only supported by TL-ER5120

Product Picture				
Model		TL-ER5120	TL-R480T+	TL-R470T+
Product Description		Gigabit Load Balance Broadband Router	Load Balance Broadband Router	Load Balance Broadband Router
Hardware	Interface	1 Gigabit WAN Port, 3 Gigabit WAN/LAN Ports, 1 Gigabit LAN Port	110/100Mbps WAN Port, 3 10/100Mbps WAN/LAN Ports, 1 10/100Mbps LAN Port	
	Power Supply	100-240VAC, 50/60Hz	100-240VAC, 50/60Hz	9VDC/0.6A
	Certifications	CE, FCC		
	Dimensions (W × D × H)	17.3 × 7.1 × 1.7 in. (440 × 180 × 44 mm)	11.6 × 7.1 × 1.7 in. (294 ×180 × 44 mm)	8.2 × 4.9 × 1.0 in. (209 × 126 × 26 mm)
	Environment	Operating Temperature: 0℃~40℃ (32℉~104℉); Storage Temperature: -40℃~70℃ (-40℉~158℉); Operating Humidity: 10%~90% non-condensing; Storage Humidity: 5%~90% non-condensing		
Performance	Cocurrent Sessions	150000	30000	10000
	NAT Throughput	800Mbps	100Mbps	
Network	WAN Connection Type	Dynamic/Static IP, PPPoE, PPTP, L2TP, Dual Access, BigPond	PPPoE, Dynamic, Static IP, PPTP, L2TP, BigPond Cable	
	Rate Limit	•		
	Port Mirroring	•	-	
	Port VLAN	•		
	SNMP	V1/V2c		
	802.1Q VLAN	•		
	IPTV	•		
	IPv6	•		
Security	Access Control	•		
	URL/Keyword Filter	•		
	Domain Filter	•		
	DoS Defense	•		
	ARP Inspection	•		
	MAC Filter	•		
Load Balance	Line Backup	•		
	Online Detection	•		
	Smart Load Balance	•		
NAT	One-to-One NAT	•		
	Multiple-nets NAT	•		
	Virtual Server	•		
	Port Triggering	•		
	ALG	•		
Routing	Static Routing	•		
	Policy Routing	•		
QoS	Guarantee Max & Min Bandwidth	•		
	Bandwidth Control By IP/Port	•		
	Session Limit By IP	•		
Web Authentication	Local User Authentication	•		
	Radius Sever Authentication	•		
	Onekey Online	•		
Service	Dynamic DNS	Dyndns, No-IP, Peanuthull, Comexe		
	UPnP	•		

Business Solution for Hospitality Networks

Overview

Wi-Fi is air. It's not an overstatement; it's reality. In any household, a strong, stable wireless network is simply an expectation. That's why whenever we leave town, one of the first things we look for in choosing a hotel is not location or a pool, but Wi-Fi. In fact, the ability to offer convenient connections makes a significant impact on overall customer satisfaction and ratings. Now, TP-Link Business Wi-Fi Solutions allow hotels to build the reliable, cost-effective wireless networks that drive progress and keep guests happy and coming back for another stay.



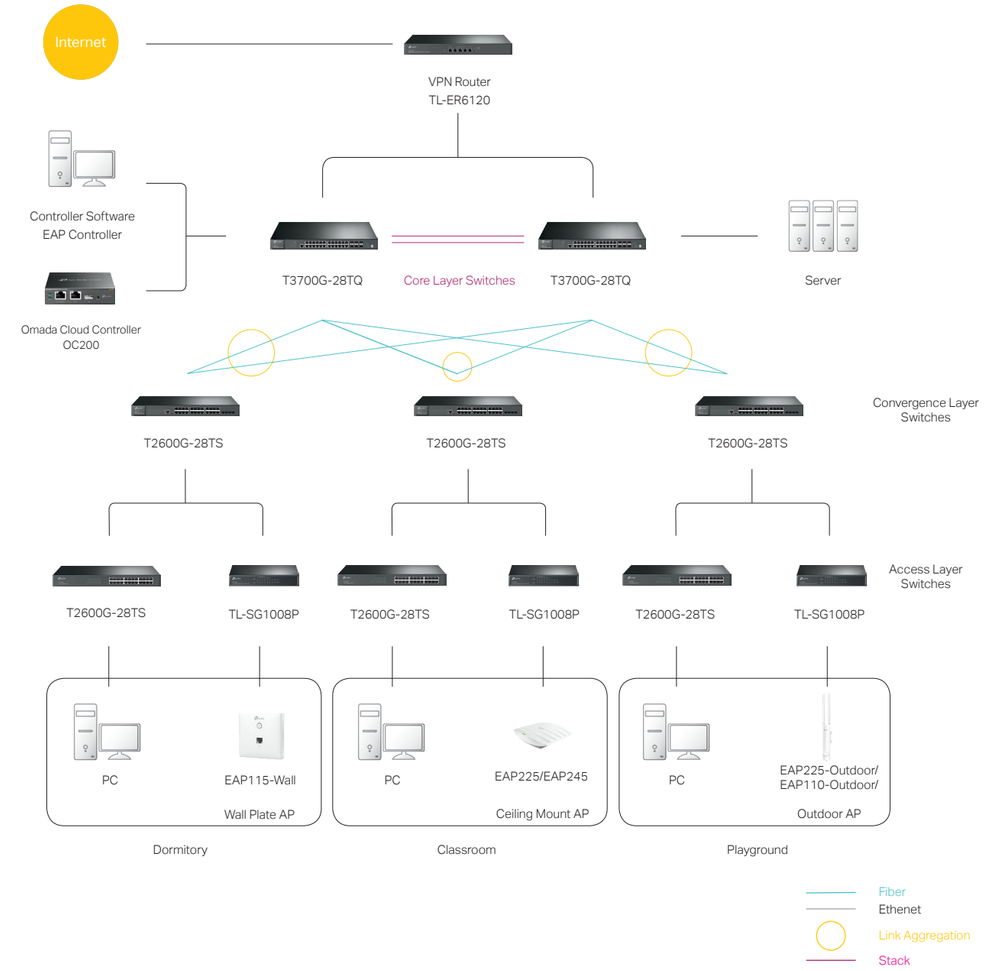
Solution Benefits

- Wide-ranging indoor and outdoor options deliver comprehensive wireless coverage.
- With the centralized management platform, muliple access points can share the same SSID and wireless configuration to present customers a consistent and fluid Wi-Fi experience.
- To establish a unique Wi-Fi authentication page, the Captive Portal function allows administrators to display discount information, promotional images and other marketing content while securing network access for guests.
- Business-class routers and switches provide abundant access control and load balance features that ensure a safe, reliable experience within a stable network.
- TP-Link business access points blend inconspicuously into any suite, common area to complement a modern decor.

Business Solution for Education Networks

Overview

In the modern educational institution, wireless connectivity is as essential as good professors and books. 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.



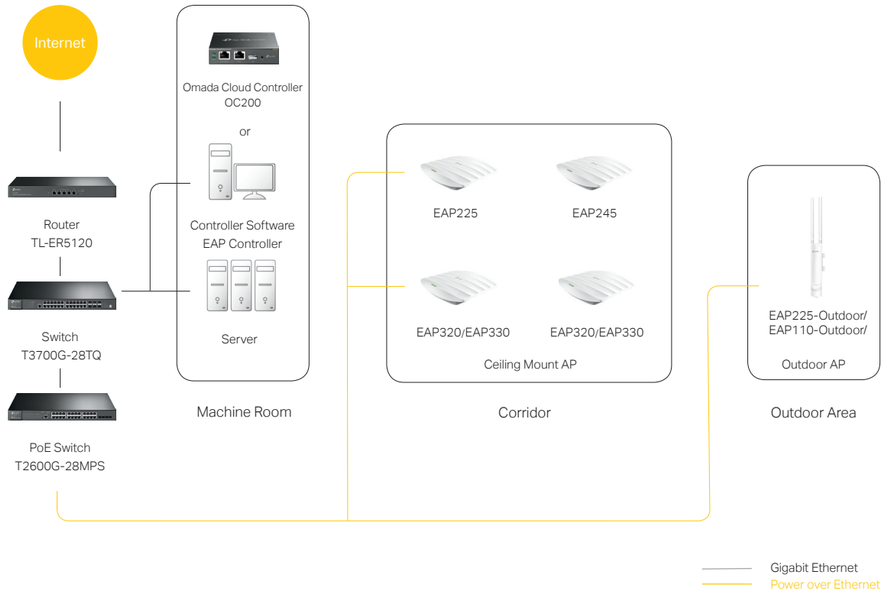
Solution Benefits

- Wide-ranging indoor and outdoor options deliver comprehensive wireless coverage.
- VPN routers allow off-campus students and teachers to access the intranet anytime, anywhere through the VPN router.
- Abundant security features safeguard a campus network's various files and sensitive information with consistent stability and security.
- Centralized management allow network administrators to easily configure and monitor all access points.

Business Solution for Shopping Mall Networks

Overview

With the growing reliance on smartphones for everyday activities, Wi-Fi has the power to play an important role in the average customer's 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. TP-Link Business Wi-Fi Solutions therefore empowers store owners to create a modern and compelling in-store experience for every customer.



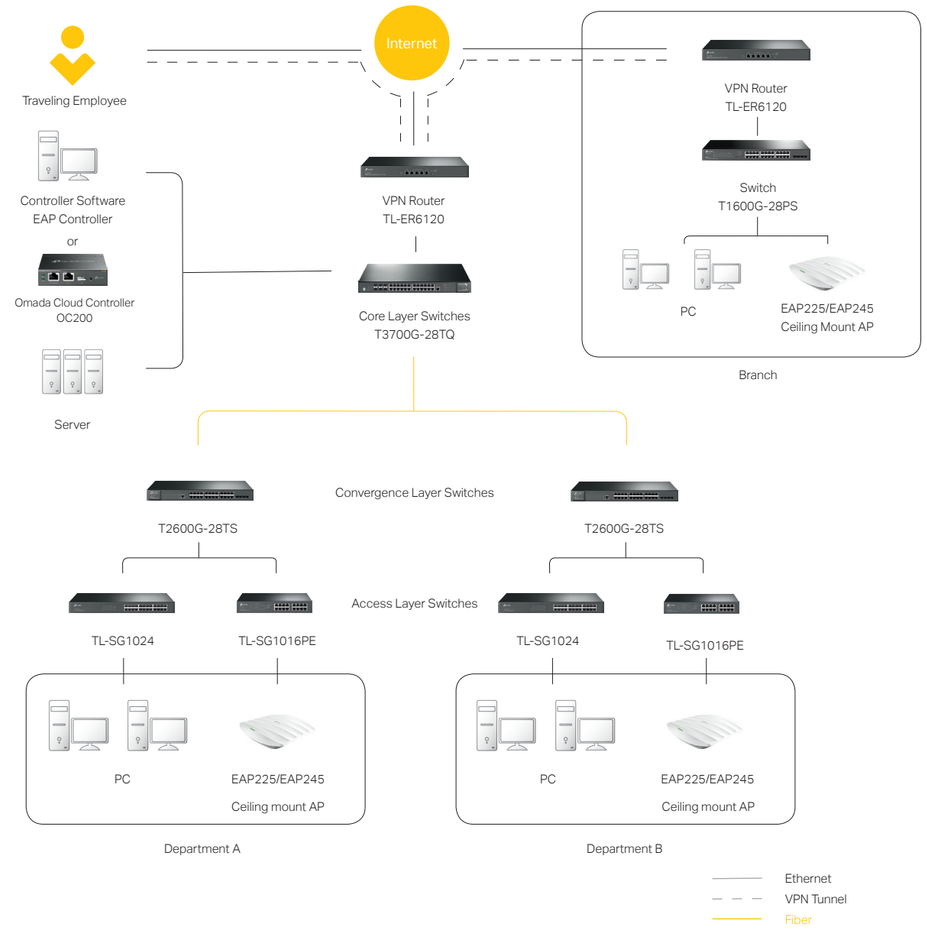
Solution Benefits

- TP-Link business access points maximize overall network performance, even during peak shopping hours in the shopping mall environment.
- With the centralized management platform, multiple access points can share the same SSID and wireless configuration to present customers a consistent and fluid Wi-Fi experience.
- To establish a unique Wi-Fi authentication page, the Captive Portal function allows to display discount information, promotional images while securing network access for guests.
- Business-class routers and switches provide abundant access control and load balance features that ensure a safe, reliable experience within a stable network.
- TP-Link business access points blend inconspicuously into any suite, common area to complement a modern decor.

Business Solution for Enterprise Networks

Overview

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



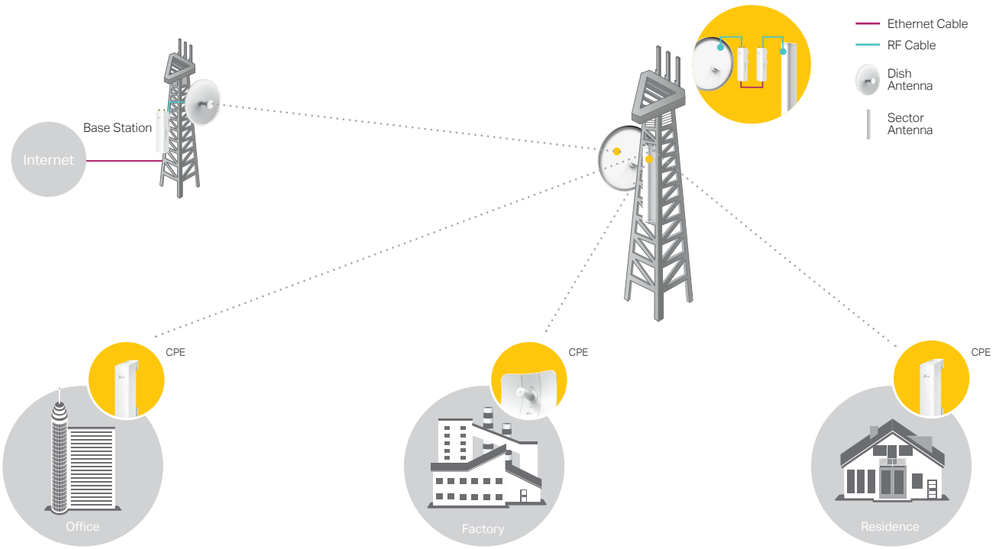
Solution Benefits

- Through the use of an enterprise-class VPN router, employees can access internal resources and communicate with headquarters safely and conveniently through IPsec, PPTP or L2TP VPN tunnels.
- Equipped with up to 10 Gigabit Ethernet ports, core switches can forward massive amounts of data at high speeds.
- TP-Link switches feature IP-MAC-Port-VLAN Binding, 802.1X Authentication, ARP Inspection and IP Source Guard to safeguard an enterprise network's various files and sensitive information with great security.
- With Access Control and VLAN functions, switches can divide enterprise networks into different subnets for different departments so employees have access to only the resources they need.

Business Solution for
Wireless Broadband

Overview

TP-Link's Pharos series are ideal for point-to-point and point-to-multipoint applications. Exceptional performance, coupled with user-friendly design, makes it an ideal choice for both businesses and home users.



Pharos Products

	Base Stations		CPEs			MIMO Antennas				
Product Picture										
Model	WBS510	WBS210	CPE610	CPE510	CPE210/ CPE220	TL-ANT2424MD	TL-ANT5830MD	TL-ANT2415MS	TL-ANT5819MS	TL-ANT2410MO
Frequency (GHz)	5.15~5.85	2.4~2.483	5.15~5.85	5.15~5.85	2.4~2.483	2.3~2.7	5.0~6.0	2.3~2.7	5.0~6.0	2.4~2.48

Features and Benefits

- Point-to-point long-distance wireless data transmission of up to 50+ km
- Enterprise hardware design for stable and maximized performance
- PharOS – Web-based management system provides advanced configuration options
- MAXtream TDMA technology for guaranteed throughput as your network grows.
- Pharos Control – Centralized Management System for large-scale network management
- Supports AP Router, AP Client Router, AP, AP Client, Multi-Bridge and Repeater Operation modes

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