

Business Networking

Products Guide



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Omâda Business Wi-Fi

Omada is aiming at quickly expanding to a full Software Defined Networking (SDN) system with seamless integration of a high performance centralized management platform, access points and more for the small and medium business networks in the near feature.



Business Wi-Fi Omāda Cloud Managed Solution

Free Cloud Management — Anytime, Anywhere

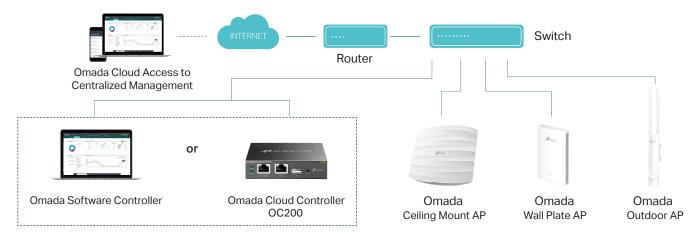
Omada offers free cloud access to its centralized management platform. Take your network with you wherever you go.

- Free Cloud Service with No License Fees
- Convenient Management with Remote Access
- Multi-Site Management for Large-Scale Networks



Omada Hybrid Cloud for Centralized Mangement

Featuring hybrid cloud technology, Omada Cloud Controller OC200 or Omada Software Controller allows you to remotely take full control of Omada networks wherever you are in the world, while locally managing Omada access points with stability and security. Network management has never been easier with the intuitive Omada app offering powerful management tools from the palm of your hands.



Two Types of Centralized Management Platform



Omada Cloud Controller (OC200)

-Dedicated hardware controller, with no extra device needed.
-Recommended management scale: 50 APs. 1000 end users.



Omada Software Controller

-Free software controller, need to be installed in a PC or server.
-Management scale is related with PC/server's hardware performance.

Omada Mesh

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



Guest Network

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



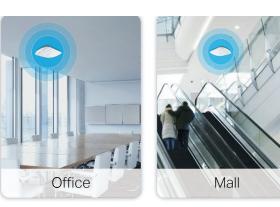
Band Steering

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.

Ideal for Small and Medium Business

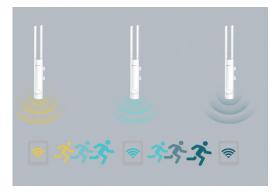


Hotel



Seamless Roaming

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



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.

Business Wi-Fi Omâdo Cloud Managed Solution



Highlights

The 802.11ac Omada EAP series is a new generation of high-performance products designed to be easily mounted to walls, ceilings, poles, or ethernet wall jacks. Seamless Roaming, Omada Mesh, and advanced RF features like MU-MIMO, Airtime Fairness, Beamforming, etc, make the 11AC ideal for demanding multi-user business environments like campuses, hotels, malls, and offices.

Omodo 802.11ac Access Points

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

- Omada Mesh technology enable wireless between access points for extended range, making wireless deployments more flexible and convenient.
- 802.11k and 802.11v seamless roaming provide seamless switching to the access point with optimal signal when moving between APs.
- 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



EAP225

AC1350 Wireless MU-MIMO Gigabit Ceiling Mount Access Point



EAP225-Wall

AC1200 Wireless MU-MIMO Wall-Plate Access Point



EAP245

AC1750 Wireless MU-MIMO Gigabit Ceiling Mount Access Point



EAP225-Outdoor

AC1200 Wireless MU-MIMO Gigabit Indoor/Outdoor Access Point

Features

Wireless Function

- Multiple SSIDs
- Transmit Power Control
 QoS (WMM)
- QoS (WN
- Seamless Roaming*
- Load Balance
- Band Steering
- 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

- Omada Cloud Controller Management
- Omada Software Controller Management
- Cloud Access
 Omada App Support
- L3 Management
- Multi-Site Management
- Automatic Device Discovery
- Centralized Configuration
 Centralized Monitoring
- Online Firmware Upgrade

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

Prod	luct Description	AC1750 Wireless MU-MIMO 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 Gigal Indoor/Outdoor Access Point		
	Wireless Frequency	2.4GHz and 5GHz					
	Compatibility		IEEE 802.1	1a/b/g/n/ac			
	Maximum Data Rate	Up to 450 Mbps(2.4GHz) +1300 Mbps(5GHz)	Up to 450 Mbps(2.4GHz) +867 Mbps(5GHz)*	Up to 300 Mbps(2.4GHz) + 867 Mbps(5GHz)	Up to 300 Mbps(2.4GHz) + 867 Mbps(5GHz)		
	Internal Antennas	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		
Main Design	Transmit Power		CE:<20dBm(2.4GHz, EIR FCC:<2				
	Ethernet Ports	Gigabit Ethernet Port*2	Gigabit Ethernet Port*2 Gigabit Ethernet Port*1 Downlink: 10/100Mbps Ethernet Port*1 Port*3 Port*3				
	Power over Ethernet (PoE)	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		
	Mesh	Developing	Developing	-	•		
	Seamless Roaming	•		-	•		
	Multiple SSIDs		16 (8 on e	ach radio)			
	Automatic Channel Assignment		•	•			
	Transmit Power Control		Adjust Transmit	Power on dBm			
Wireless	QoS(WMM)		•				
Function	MU-MIMO		•				
	Band Steering		•				
	Beamforming / Airtime Fairness	•					
	Load Balance	•					
	Rate Limit	•					
	Reboot / Wireless Schedule	•					
	Omada Software Controller	•					
	Omada Cloud Controller OC200	•					
	Omada app	•					
	Built-in Web Interface	•					
Management	L3 Management	•					
	Multi-site Management	•					
	Management VLAN	•					
	Management MAC Access Control	•					
	System Logging	Local/Remote Syslog					
	Email Alerts	(Fasabaak Lagin SMS Support)					
	Captive Portal Authentication	● (Facebook Login,SMS Support)					
	Access Control	•					
	Wireless MAC Address Filtering	•					
Security	Wireless Isolation between Clients	•					
Coduity	SSID to VLAN Mapping	•					
	Rogue AP Detection	•					
	802.1X Support	•					
	Encryption		WEP, WPA/WPA2-PSK,	WPA/WPA2-Enterprise			
	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 Po		
	Max. Power Consumption	12.3 watts	9.86 watts	9 watts /25.5 watts (PoE Out Included)	10.5 watts		
	Button		Reset I	Button			
	Watch Dog		•	•			
Handrin	Certification		CE, FCC	C, RoHS			
Hardware	Mounting	Ceiling /Wall moun	ting (Kits included)	Wall Plate Mouting	Pole/Wall Mounting (Kits included)		
	Dimensions (W x D x H)	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, Window	ws 7, Windows 8, Windows 10, Linux			
	Environment	Operating Temperature: 0°C~40°C (32°F~104°F); Operating Temperature: -30°C~7 (-22°F~158°F)					

EAP225-Wall

EAP225-Outdooi

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Product Picture

Business Wi-Fi Omada Cloud Managed Solution



Highlights

The 11n Omada EAP series is designed for small and medium-sized business environments as a cost effective solution. This centralized management platform with free cloud access, either the cloud controller OC200 or free software controller, allows you to manage the whole network at once-anytime, anywhere.

Omâda 802.11n Access Points

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

- 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

- Multiple SSIDs
- Automatic Channel Assignment
- Transmit Power Control
- Load Balance
- Rate Limit
- Wireless Schedule

Wireless Security

- Captive Portal Authentication
- Access Control
- MAC Address Filtering
- SSID to VLAN Mapping
- Rogue AP Detection

Centralized Network Management

- Omada Cloud Controller Management
- Omada Software Controller Management
- Cloud Access
- Omada App Support • L3 Management
- Multi-Site Management
- Automatic Device Discovery
- Centralized Configuration
- Centralized Monitoring
- Online Firmware Upgrade

Product Picture				o			
	Model	EAP115	EAP110	EAP115-Wall	EAP110-Outdoor		
Prod	uct 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		
	Wireless Frequency		2.4	GHz			
	Compatibility		IEEE 802	.11b/g/n			
	Maximum Data Rate		Up to 30	00Mbps			
Main Design	Antennas	2*4	ldBi	2*1.8dBi	2*3dBi (External)		
	Transmit power		19dBm 21dBm	CE: <20dBm	CE: <20dBm FCC: <22dBm		
	Ethernet Ports		thernet 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		
	Multiple SSIDs		8				
	Automatic Channel						
	Assignment Transmit Power Control		Adjust Transmit	: Power on dBm			
Wireless Function	QoS(WMM)		Adjust Iransiiii				
Tanodoll	Load Balance						
	Reboot Schedule			•			
	Wireless Schedule			•			
	Omada Software Controller			•			
	Omada Cloud Controller OC200	•					
	Omada app	•					
	Built-in Web Interface			•			
	L3 Management	•					
Management	Multi-site Management	•					
	Management VLAN		(•			
	Management MAC Access Control	•					
	System Logging		Local/Rem	ote Syslog			
	Email Alerts	•					
	Captive Portal Authentication	● (Facebook Login,SMS Support)					
	Access Control	•					
	Wireless MAC Address Filtering	•					
Security	Wireless Isolation between Clients		•				
	SSID to VLAN Mapping	•					
	Rogue AP Detection)			
	802.1X Support						
	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			•	I		
	Certification	CE, FC	C, RoHS	CE, RoHS	CE, RoHS, FCC		
Hardware	Mounting	Ceiling /Wall mour	nting (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, Windo	ws 7, Windows 8, Windows 10, Linux			
	Environment		perating Temperature: 0°C~40°C (32°F~104 Storage Temperature: -4 rating Humidity: 10%~90% non-condensin	0°C~70°C (-40°F~158°F),	Operating Temperature: -30°C~65°C (-22°F~149°F)		

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Business Wi-Fi Omādo Cloud Managed Solution



Omada Cloud Controller OC200

- Professional centralized management for Wi-Fi network
- Free cloud access to manage from anywhere, anytime
- PoE (802.3af/802.3at) supported for easy installation
- Industry leading hardware design with powerful chipset, durable metal casing, and USB port for auto backup
- Omada App for a convenient management
- Secure guest network with multiple login options(Facebook Wi-Fi, SMS login, Vourcher)

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 Desc	cription Descriptions	Omada Cloud Controller
	Processor	Dual-Core Cortex-A53 1GHz
	Memory Information	1GB DDR3
Main Design	Storage	4GB EMMC
	Interface	10/100Mbps Ethernet Port*2; USB 2.0 Port*1; Micro USB Port*1
	Power Supply	802.3af/802.3at PoE; Micro USB (DC 5V/Minimum 1A)
Hardware Design	Dimensions	3.9×3.9×1.0in. (100×98×25mm)
	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
	Support AP	TP-Link Omada EAP Series
	AP Automatic Discovery	•
AP	AP Unified Configuration	•
Management	L3 Management	•
	Reboot Schedule	•
	Online Firmware Upgrade	•
	Management VLAN	•
	MAC Filter	•
Security	Encryption	WEP/WPA-PSK/WPA2-PSK/WPA/WPA2
	Access Control	•
	SSID to VLAN Mapping	•
	Captive Portal	SMS, Facebook Wi-Fi, Voucher, Local User, Simple Password, External RADIUS Portal
	Seamless Roaming	•
	Mesh	•
	Band Steering	•
Wireless Function	Load Balance	•
	Beamforming	•
	Rate Limit	Based on SSID/Client
	Transmit Power Adjustment	•
	Wireless Schedule	·

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		
Produc	ct Description	AC500 Wireless Controller	AC50 Wireless Controller		
	Processor	1GHz Dual-core MIPS64 Network dedicated processor	650MHz Network dedicated processor		
Main Design	Memory Information	256MB DDR3*2, 32MB Flash*2	128MB DDR2*1, 16MB Flash*1		
Main Design	Interface	Gigabit Ethernet Port*5	10/100Mbps Ethernet Port*5		
	Management Scale	Up to 500 APs	Up to 50 APs		
	Communication protocol	CAP	WAP		
Oit	AP Isolation	•	•		
Security	SSID Isolation		•		
	SSID to VLAN Mapping		•		
	Support AP	TP-Link Auran	et Access Point		
	AP Automatic Discovery		•		
	AP Unified Configuration	•			
AP Management	Reboot Schedule	•			
	Batch Firmware Upgrade		•		
	L3 Management		•		
	AP LED ON/OFF	•			
	System	•			
	AP Statistics	•			
Monitoring	Client Statistics	•			
	Authentication User Statistics	•			
	Load Balance		•		
	Band Steering	•			
Wireless Function	Auto Channel Adjustment		•		
	Transmit Power Adjustment		•		
	WMM		•		
Authentication	Captive Portal	•	•		
Function	MAC Filtering		•		
	Web-based Management		•		
System	Configuration Backup/Import		•		
Management	Ping/Tracert Tool	•			
	System Log		•		
	Power Supply	100~240V	AC, 50/60Hz		
Hardware Design	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)		
Hardware Design	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			

Business Wi-Fi

Auranet Hardware Managed Solution



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.

Auranet Hardware Managed Access Point

Secure and Reliable Wi-Fi Solution for **Business Environments**

- 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 **Product Description** IEEE802.11a/b/g/n/ac IEEE 802.11b/g/n Compatibility Up to 300 Mbps Main Design Ethernet Ports Power over Ethernet (PoE) IEEE 802.3at IEEE 802.3af Captive Portal Authentication • (Facebook Login,SMS Support) SSID to VLAN Mapping 802.1X Support WEP, WPA/WPA2-PSK, WPA/WPA2-Enterprise Multiple SSIDs 16 (8 on each radio) Adjust Transmit Power on dBm Transmit Power Control Band Steering Reboot Schedule LED ON/OFF Control Telnet System Logging 802.3at PoE or I 12VDC/1.5A pow 802.3af PoE or al 12VDC/1.5A pow 80.23af PoE or al 9V/0.6A power suppl 802.3af PoF Power Supply Button Fit/Fat Switch, Reset Button Watch Dog CE,FCC,RoHS 8.2 × 3.7 × 1.7 in. (209 × 95 × 42.6 mm) Dimensions (W × D × H) Microsoft Windows XP, Vista, Windows 7, Windows 8, Windows 10

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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 Jetstream Smart Switches, Jetstream 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.

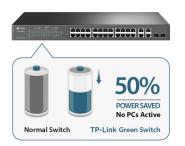
IPv6 Support

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.

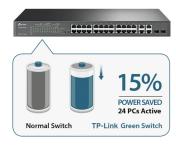
*Features mentioned above are supported by specific models. For detailed information, please refer to the detailed specifications.

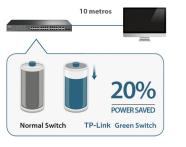
Green Technology

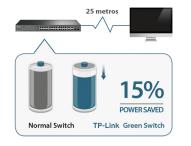
TP-Link power saving technology helps you build your network with less investment. What's more, TP-Link consciously strives to commit to reducing our own environmental footprint, so as to protect our environment for now and the future.

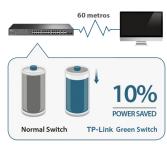












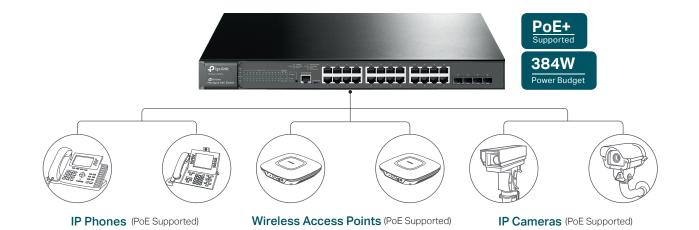
Power Over Ethernet

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



L3 Managed Switches



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.

Stream 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



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 ProxyVRRP

DHCP Server

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
- 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 VI AN
- 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/v3RMON (1, 2, 3, 9 group)
- Dual Image
- IPv6 Management

Pr	roduct Picture					
	Model	T3700G-52TQ V1	T3700G-28TQ V3			
Proc	duct Description	JetStream 52-Port Gigabit Stackable L3 Managed Switch	JetStream 28-Port Gigabit Stackable L3 Managed Switch			
	Gigabit RJ45 Ports	48	24			
	Gigabit SFP Ports	4 (Combo)			
	10G SFP+ Slots	Up to 4 (2 fix	ed and 2 optional)			
	Console Port	1 (RJ45), 1 (Micro-USB)				
	Management Port	1	(RJ45)			
	USB Port	1 USB Storage Slot				
Hardware	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, 802.1z, 802.1p				
	Flow Control		•			
	Power Supply	Dual Hot-swappable Pow 100-240	er Supply Module(PSM150-AC) IVAC, 50/60Hz			
	Certifications		E, FCC			
	Dimensions (W × D × H)	17.3 × 16.5 × 1.7 in.	17.3 × 13 × 1.7 in.			
_	Differsions (W × D × H)	(440 × 420 × 44 mm)	(440 × 330 × 44 mm)			
	Environment	Operating Temperature: 0°C~40°C (32°F~104° Operating Humidity: 10%~90% non-conden	F);Storage Temperature: -40°C~70°C (-40°F~158°F) sing;Storage Humidity: 5%~90% non-condensing			
	Max Number of Stacking Ports Installable	:	2 SFP+			
nysical Stacking	No. of Units Per Stack		8			
	Stacking Speed (Per Port)	20Gbps	s (Full-Duplex)			
	Switch Capacity	Up to 176Gbps for a standalone switch	Up to 128 Gbps for a			
		standalone switch Up to 130.9Mpps for	standalone switch Up to 95.2Mpps for			
	Forwarding Rate	a standalone switch	a standalone switch			
	MAC Address Table	32K				
Performance	Packet Buffer Memory	32 Mbits				
	Number of IP Interfaces	128				
	Number of Routes	8KIPv4				
	Number of Static Routes	256				
	Jumbo Frame	12KB				
	Wire-speed IP forwarding		•			
	Static Routing		•			
	RIP		v1/v2			
	OSPF		v2			
L3 Features	ECMP		•			
	PIM-SM/PIM-DM/IGMP		•			
	DHCP Server/Relay	•				
	ARP Proxy	•				
	VRRP	•				
	IGMP Snooping	V1/V2/V3				
	STP/RSTP/MSTP	•				
	Loopback Detection		•			
	QinQ		•			
	VLAN	802.1Q/MAC-based/Protocol-based/GVRP/Private/Voice VLAN				
L2 Features	QoS	8 Queues,Port	:/802.1p/DSCP QoS			
	Rate Limit		•			
	Port Isolation		•			
	Port Mirroring		•			
	Link Aggregation	Static	LAG/LACP			
	DHCP Snooping		•			
	Access Control List		•			
	IP + MAC + Port + VID Binding		•			
	Storm Control		•			
	Port Security		•			
Societity	SSH & SSL		•			
Security	IP Source Guard		•			
	DoS Defence		•			
	Dynamic ARP Inspection		•			
	IEEE 802.1X Authentication		•			
	Guest VLAN		•			
	SNMP	V1	/V2c/V3			
	RMON	Grou	p 1, 2, 3, 9			
	Command Line Interface (CLI)		•			
	Dual Image/Configuration		•			
System Management	LLDP/LLDP-MED		•			
gomont	IPv6		•			
	Firmware Upgrade		•			
	System Diagnose	VCT/CPU Mo	nitor/Ping/Tracert			
	Web Interface/SYSLOG/MIBS		•			

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.

Stream 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-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-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-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

- IP-MAC-Port-VID Binding • IEEE 802.1p Priority • DSCP QoS
 - Access Control List (L2~L4 ACL, IPv6 ACL) • ARP Inspection
- IPv6 QoS • IP Source Guard
- 802.1x and RADIUS/TACACS+ Voice VLAN
 - Authentication • DoS Defend

Security Strategies

Management

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

	Gigabit RJ45 FOLIS	4 (Combo)	40/24	24, all Support POET	10		
	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			AC, 50/60Hz			
Hardware	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 Operatin	Temperature: 0°C~40°C(32°F~104°F); ng Humidity: 10%~90% non-condensir	Storage Temperature: -40°C~70°C (-4 ng; Storage Humidity: 5%~90% non-co	0°F~158°F) ondensing		
	Switching Capacity	128Gbps	104Gbps / 56Gbps	56Gbps	36Gbps		
Denfermen	Forwarding Rate	95.2Mpps	77.4Mpps / 41.7Mpps	41.7Mpps	26.8Mpps		
Performance	MAC Address Table		16K		8K		
	Jumbo Frame		91	КВ			
	Static Routing			•			
L2+ Features	DHCP Server/Relay			•			
	ARP Proxy	•					
	IGMP Snooping	V1/V2/V3					
	STP/RSTP/MSTP	•					
	Root Guard/Loopback Detection	•					
				•			
	QinQ	802.1Q/GVRP/MAC/Protocol/Private*/Voice VLAN					
	VLAN		802.1Q/GVRP/MAC/Prote	ocol/Private*/Voice VLAN			
L2 Features	QoS	•					
	Rate Limit	•					
	Port Isolation	•					
	Port Mirroring	•					
	Link Aggregation		Static LA	G/LACP			
	DHCP Snooping	•					
	Access Control List	•					
	IP+MAC+Port+VID Binding	•					
	Strom Control	•					
	SSH & SSL	•					
Security	IP Source Guard			•			
	DoS Defence	•					
	Dynamic ARP Inspection			•			
	IEEE 802.1X Authentication			•			
	SNMP			•			
	RMON			1			
				•			
	Command Line Interface (CLI)						
	Dual Image/Configuration			•			
	sFlow		•		-		
ystem Management	Ethernet OAM		•		-		
	LLDP/LLDP-MED			•			
	IPv6			•			
	Firmware Upgrade						
	System Diagnose			•			
	Web Interface/SYSLOG/MIBS			•			

T2600G-28SQ V1

etStream 28-Port Gigabit SFP L2 Managed Switch

JetStream 48/24-port Gigabit L2 Managed Switch with 4 SFP Slots

T2600G-28MPS (TL-SG3424P) V3

24, all support PoE+

JetStream 16-Port Gigabit L2 lanaged Switch with 2 SFP Slots

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Product Picture

Model

Product Description

^{*} T2600G-18TS doesn't support these functions 19 Business Networking Product Guide

^{*} T2600G-18TS doesn't support private VLAN

L2 Managed Switches



Stream T2500 Series

Ideal Solution for Small and Medium-sized Business Networks

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.

- 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



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

Security Strategies

- AAA
- ARP Inspection
- Voice VLAN

- IP-MAC-Port-VID Binding Access Control List (L2~L4 ACL)
- 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

Pro	oduct Picture	
	Model	T2500G-10TS (TL-SG3210) V1
Produ	uct Description	JetStream 8-Port Gigabit L2 Managed Switch with 2 SFP Slots
	Gigabit RJ45 Ports	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
Hardware	PoE Power Budget	-
	PoE Standard	
	Fanless	•
	Certifications	CE, FCC
	Dimensions (W × D × H)	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
	Switching Capacity	20Gbps
	Forwarding Rate	200ups 14.9Mpps
Performance	MAC Address Table	8K
	Jumbo Frame	10KB
	IGMP Snooping	V1/V2/V3
	STP/RSTP/MSTP	•
	Loopback Detection	•
	QinQ	•
	VLAN	802.1Q/GVRP/MAC/Protocol/Voice VLAN
	QoS	4 Queues, Port/802.1p/DSCP QoS
L2 Features	Rate Limit	4 Queues, FULVAUZ TULDOUT QUO
	Port Isolation	•
	LACP Link Aggregation	Static LAG / LACP
	Port Mirroring	Static LMS7 LMGF
	DHCP Snooping	•
	Access Control List	•
	IP + MAC + PORT + VID Binding	•
	Storm Control	•
	Port Security	•
Security	SSH & SSL	•
Security	DoS Defend	•
		•
	Dynamic ARP Inspection IEEE 802.1X Authentication	•
	Guest VLAN	•
	SNMP	V1/V2c/V3
	RMON	Group 1, 2, 3, 9
	Command Line Interface (CLI)	•
System Management	LLDP/LLDP-MED	•
	IPv6	•
	Firmware Upgrade	• NOTIONIA 11 / IP. IT.
	System Diagnose	VCT/CPU Monitor/Ping/Tracert
	Web Interface/SYSLOG/Public MIBS	•

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Switches Smart Switches



Stream 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



T1700V_16T0

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
- IGMP/MLD Snooping4K 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				
ı	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				
	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	100-240VA	AC, 50/60Hz				
Hardware	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); Operating Humidity: 10%~90% non-condensin	Storage Temperature: -40°C~70°C (-40°F~158°F) g; Storage Humidity: 5%-90% non-condensing				
	Switching Capacity	320Gbps	128Gbps				
Performance	Forwarding Rate	238.1Mpps	95.2Mpps				
7 GITOTHIANCE	MAC Address Table	16	SK .				
	Jumbo Frame	91	KB				
Physical Stacking	Max Number of Stacking Ports	-	2 SFP+				
Stacking	Stacking Units	-	6				
L2+ Features	Static Routing	•					
L2+ realures	DHCP Relay	•					
	IGMP Snooping	V1/V2/V3					
	STP/RSTP/MSTP	•					
	Loopback Detection	•					
	VLAN	802.1Q/GVRP/MAC/Protocol/Private*/Voice VLAN					
L2 Features	QoS	8 Queues, Port/802.1p/IP DSCP QoS					
L2 Features	Rate Limit	•					
	Port Isolation	•					
	Link Aggregation	Static LAG / LACP					
	Port Mirroring	•					
	DHCP Snooping	•					
	Access Control List	•					
	IP + MAC + PORT + VID Binding		•				
	Storm Control		•				
	Port Security		•				
Security	SSH & SSL		•				
	DoS Defense		•				
	Dynamic ARP Inspection		•				
	IEEE 802.1X Authentication		•				
	Guest VLAN	•	•				
	SNMP	V1/V:	2c/V3				
	RMON	Group *	1, 2, 3, 9				
	Command Line Interface (CLI)	Tel	net				
System Management	IPv6	•	•				
wanagement	Dual Image		•				
	Firmware Upgrade	•	•				
	System Diagnose	VCT/CPU Monit	tor/Ping/Tracert				
	Web Interface/SYSLOG/Public MIBS		•				

^{*} Private VLAN is only supported by T1700X-16TS

Switches Smart Switches



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.

Stream 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



T1600G-52TS (TL-SG2452) JetStream 48-Port Gigabit Smart Switch with 4 SFP Slots

48 Gigabit RJ45, 4 Gigabit SFP, 19-inch rackmount



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-28TS (TL-SG2424) JetStream 24-Port Gigabit Smart Switch with 4 SFP Slots

24 Gigabit RJ45, 4 Gigabit SFP, 19-inch rack-mountable



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
- LL DP/LL DP-MFD

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) V4	T1600G-52TS (TL-SG2452) V4	T1600G-28PS (TL-SG2424P) V3	T1600G-28TS (TL-SG2424) V3	T1600G-18TS (TL-SG2216) V2		
Produ	ct 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		
	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.	Ix		
	Auto-Negotiation / Auto MDI/MDIX		•					
	Flow Control	•						
	Power Supply		100-240VAC, 50/60Hz					
Hardware	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 (440 × 180			
	Environment		ating Temperature: 0°C~40°C(3 erating Humidity: 10%~90% no					
	Switch Capacity	1040	bps	560	Gbps	36Gbps		
Performance	Forwarding Rate	77.4N	1pps	41.7	Mpps	26.8Mpps		
	MAC Address Table	16 K 8K						
	Jumbo Frame			9KB				
Static Routing		•						
	DHCP Relay	•						
	IGMP Snooping	V1/V2/V3						
	STP/RSTP/MSTP	•						
	Loopback Detection	•						
	VLAN	802.1Q/GVRP/MAC/Protocol/Voice VLAN						
L2 Features	QoS		8 Qı	ueues, Port/802.1p/DSCP Qo	S			
11 . Gata. GG	Rate Limit			•				
	Port Isolation			•				
	Link Aggregation	Static LAG, LACP						
	Port Mirroring			•				
	DHCP Snooping	•						
	Access Control List	•						
	IP + MAC + PORT + VID Binding			•				
	Storm Control			•				
	Port Security			•				
Security	SSL & SSH			•				
	DoS Defense			•				
	Dynamic ARP Inspection			•				
	IEEE 802.1X Authentication			•				
	Guest VLAN			•				
	SNMP			V1/V2c/V3				
	RMON			Group 1,2,3,9				
	Command Line Interface(CLI)			Telnet				
System Management	IPv6			•				
,	Dual Image			•				
	Firmware Upgrade			•				
	System Diagnose		V	CT/CPU Monitor/Ping/Tracert				
	Web Interface/SYSLOG/Public MIBs			•				

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Switches Smart Switches



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.

Stream T1500 Series

A Simple, Intelligent Networking Solution for the Access Layer

- 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-8T (TL-SG2008)

JetStream 8-Port Gigabit Smart Switch

8 Gigabit RJ45 (1 802.3af PD Port), desktop design



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



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+
- Loopback Detection

Management

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

*	Only	for	PoE	mode
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	Product Picture		100	Para de la companya d	·			
	Model	T1500G-10MPS V2	T1500G-10PS (TL-SG2210P) V2	T1500G-8T (TL-SG2008) V2	T1500-28PCT (TL-SL2428P) V3			
Р	roduct 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			
	10/100Mbps RJ45 Ports		-					
	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			
Hardware	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	Operatir Opera	ng Temperature: 0°C~40°C(32°F~104°F); ting Humidity: 10%~90% non-condensin	Storage Temperature: -40°C~70°C (-40°F ng; Storage Humidity: 5%~90% non-cond	~158°F) ensing			
	Switching Capacity	200	20Gbps 16Gbps					
	Forwarding Rate	14.91	Mpps	11.9Mpps	9.5Mpps			
	MAC Address Table		3	8K				
	Jumbo Frame	9KB						
	IGMP Snooping	V1/V2/V3						
	STP/RSTP/MSTP	•						
	Loopback Detection	•						
	VLAN	802.1Q/GVRP/MAC/Protocol/Voice VLAN						
L2 Features	QoS	8 Queues,Port/802.1p/DSCP QoS						
	Rate Limit	•						
	Port Isolation	•						
	Link Aggregation	Static LAG, LACP						
	Port Mirroring	•						
	DHCP Snooping	•						
	Access Control List			•				
	IP + MAC + Port + VID Binding	•						
	Storm Control	•						
	Port Security	•						
Security	SSL & SSH			•				
	DoS Defense			•				
	Dynamic ARP Inspection			•				
	IEEE 802.1X Authentication			•				
	Guest VLAN			•				
	SNMP		V1/V	2c/V3				
	RMON		Group	1,2,3,9				
	Command Line Interface(CLI)		Te	Inet				
System Management	LLDP/LLDP-MED			•				
wanagement	IPv6			•				
	Firmware Upgrade			•				
	System Diagnose		VCT/CPU Moni	tor/Ping/Tracert				
	Web Interface/Syslog/Public MIBS			•				

Easy Smart Switches



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.

Easy Smart Switches

A Simple and Cost-Effective Networking Solution for Small Businesses

- 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			•••• • • • • • • • • • • • • • • • • •	<i>₽</i> ···· :			
	Model	TL-SG1024DE	TL-SG1016PE/TL-SG108PE	TL-SG1016DE			
Pr	oduct 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			
	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	-			
Hardware	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 Temperat Operating Humidi	70°C (-40°F~158°F) 6 non-condensing				
	Switching Capacity	48Gbps	32Gbps / 16Gbps	32Gbps			
Performance	Forwarding Rate	35.7Mpps	23.8Mpps / 11.9Mbps	23.8Mpps			
remornance	MAC Address Table	8K	8K / 4K	8K			
	Jumbo Frame	10KB	10KB / 16KB	10KB			
	IGMP Snooping	v1/v2/v3					
	Link Aggregation (Static LAG)	•					
	Port Mirroring		•				
Software	Cable Test		•				
Features	Loop Prevention		•				
	VLAN		MTU/Port/802.1Q VLAN				
	QoS		4 Queues/Port/802.1p/DSCP				
	Rate Limit		•				

^{*} TL-SG108PE only supports 802.3af

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Switches

Unmanaged Pro Switches



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

Unmanaged Pro Switches

Plug & Play and Additional Features, Making It 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 16-Port Gigabit Unmanaged Pro Switch

16 Gigabit RJ45, desktop design



TL-SG108E 8-Port Gigabit Unmanaged Pro Switch

8 Gigabit RJ45, desktop design



TL-SG105E 5-Port Gigabit Unmanaged Pro Switch

5 Gigabit RJ45, desktop design

Pro	oduct Picture			*****			
	Model	TL-SG116E	TL-SG108E	TL-SG105E			
Prod	uct Description	16-Port Gigabit Unmanaged Pro Switch	8-Port Gigabit Unmanaged Pro Switch	5-Port Gigabit Unmanaged Pro Switch			
	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 Adapte	r (Output: 9VDC / 0.6A)			
	PoE Power Budget		-				
Hardware	PoE Standard		-				
	Fanless		•				
	Certifications	CE, FCC					
	Dimensions (W × D × H)	11.3× 4.4× 1.0 in. (286 × 112 × 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					
	Switching Capacity	32Gbps	16Gbps	10Gbps			
Performance	Forwarding Rate	23.8Mpps	11.9Mpps	7.4Mpps			
Perrormance	MAC Address Table	8K	4K	2K			
	Jumbo Frame	10KB	16KB	16KB			
	IGMP Snooping		v1/v2/v3				
	Link Aggregation (Static LAG)	•					
	Port Mirroring	•					
Software	Cable Test		•				
Features Loop Prevention			•				
	VLAN		MTU/Port/802.1Q VLAN				
	QoS		4 Queues/Port/802.1p/DSCP				
	Rate Limit		•				

Unmanaged 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 Unmanaged Rackmount Switches

- 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		<u> </u>	(HILL)		·	
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			ВК		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		10	DKB		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	d Forward		
Power Supply			100-240V	AC, 50/60Hz		
Certifications			CE,	FCC		
Dimensions (W × D × H)	17.3 x 8.7 x 1.7 in. 17.3 x 7.1 x 1.7 in. 11.6 x 7.1 x 1.7 in. (440 x 220 x 44 mm) (294 x 180 x 44 mm) (294 x 180 x 44 mm)					
Environment				; Storage Temperature: -40°C~ ng; Storage Humidity: 5%~90%		

Switches

Unmanaged 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 Unmanaged Rackmount Switches

- 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	* *************************************	· · · · · · · · · · · · · · · · · · ·	- (1111111		== :::::::::::::::::::::::::::::::::::		
Model	TL-SF1048	TL-SF1024	TL-SF1016	TL-SF1024D	TL-SF1016DS		
Product Description	48-Port 10/100Mbps Rackmount Switch	24-Port 10/100Mbps Rackmount Switch	16-Port 10/100Mbps Rackmount Switch	24-Port 10/100Mbps Desktop/Rackmount Switch	16-Port 10/100Mbps Desktop/Rackmount Switch		
10/100Mbps RJ45 Ports	48	24	16	24	16		
MAC Address Table	16K		8	K			
Switching Capacity	9.6Gbps	4.8Gbps	3.2Gbps	4.8Gbps	3.2Gbps		
Forwarding Rate	7.14Mpps	3.57Mpps	2.38Mpps	3.57Mpps	2.38Mpps		
Jumbo Frame	10KB		21	(B			
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 × 1.7 in. 11.6 × 7.1 × 1.7 in. (440 × 180 × 44 mm) (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						

Unmanaged Switches



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.

Unmanaged Desktop Switches

Brings Connectivity and Flexibility to Your Desktop

- 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		•	influe influe influe influe influe		
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	7.4Mpps/11.9Mpps	0.74Mpps/1.19Mpps/2.38Mpps/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	Plast	ic 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)	n) IL-5G1008D: 7.1 x 3.5 x 1.0 in. (180 x 90 x 25.5 mm) IL-5F1008D: 5.3 x 3.1 x 0.9 in. (180 x 90 x 25.5 mm) IL-5F1008D: 5.5 x 3.7 x 0.9 in. (180 x 90 x 25.5 mm) IL-5F1008D: 5.5 x 3.7 x 0.9 in. (180 x 90 x 25.5 mm) IL-5F1008D: 5.5 x 3.7 x 0.9 in. (180 x 90 x 25.5 mm)			
Environment		perating 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			

10 Gigabit SFP+ Module and SFP+ Cable

Product Picture	Table Table To		O				
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		g Temperature: 0°C~40°C (32°F~104°F); Storage Temperature: -40°C~70°C (-40°F~158°F) ing 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	e, SFF-8431, SFF-8472			
Data Rate		1.25	5Gbps			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			4					
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 Gigabi	t SC Port	1 SFP Port		1 100	OMbps SC Port		
interrace	1 10/100/1	000Mbps 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: $0^{\circ}\text{C} \sim 40^{\circ}\text{C}$ ($32^{\circ}\text{F} \sim 104^{\circ}\text{F}$); Storage Temperature: $-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$ ($-40^{\circ}\text{F} \sim 158^{\circ}\text{F}$); Operating Humidity: $10\% \sim 90\%$ non-condensing; Storage Humidity: $5\% \sim 89\%$ 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

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Business Networking Product Guide 34

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



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.

Managed PoE Switches

Stream 24-Port Gigabit L2 Managed PoE+Switch with 4 SFP Slots T2600G-28MPS (TL-SG3424P)

- 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



T1600G-28PS (TL-SG2424P)

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

24 Gigabit RJ45 (all support 802.3at/af PoE+), 4 Gigabit SFP, 192W PoE Power Budget, 19-inch rackmount



T1500G-10PS (TL-SG2210P)

 ${\sf JetStream\,8-Port\,Gigabit\,Smart\,PoE\,Switch\,with\,2\,SFP\,Slots}$

8 Gigabit RJ45 (all support 802.3af PoE), 2 Gigabit SFP, 53W PoE Power Budget, desktop design



T1600G-52PS (TL-SG2452P)

JetStream 48-Port Gigabit Smart PoE+ Switch with 4 SFP Slots

48 Gigabit RJ45 (all support 802.3at/af PoE+), 4 Gigabit SFP, 384W 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

Proc	duct Picture										
	Model	T2600G-28MPS (TL-SG3424P) V3	T1600G-52PS (TL-SG2452P) V3	T1600G-28PS (TL-SG2424P) V3	T1500G-10MPS V2	T1500G-10PS V2	T1500-28PCT (TL-SL2428P) V3				
Produc	ct Description	JetStream 24-Port Gigabit L2 Managed PoE+ Switch with 4 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				
	10/100Mbps RJ45 Ports		-								
	Gigabit RJ45 Ports	48/24, all support PoE+	48, all support PoE+	24, all support PoE+	8, all support PoE+	PoE	4				
	Gigabit SFP Ports		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, 802.3af, 802.3af									
	Flow Control				•						
Hardware	Power Supply		100-240VA	100-240VAC, 50/60Hz External Power Adapter (Output: 48VDC / 1.25A)	100-240VAC, 50/60Hz						
Tidiawaic	PoE Power Budget	384W	384W	192W	116W	53W	192W				
	PoE Standard			802.3	Baf/at ¹						
	Fanless	2 Fans	3 Fans	2 Fans	1 Fans	Fanless	2 Fans				
	Certifications			CE	, FCC						
	Dimensions (W × D × H)	17.3 x 13 x 1.7 in. (440 x 330 x 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				Storage Temperature: -40°C ~ g; Storage Humidity: 5%~90%						
	Switch Capacity	56Gbps	104Gbps	56Gbps	20G	bps	12.8Gbps				
D (Forwarding Rate	41.7Mpps	77.4Mpps	41.7Mpps	14.91	Mpps	9.5Mpps				
Performance	MAC Address Table	16K 16K 8K									
	Jumbo Frame			91	КВ						
	IGMP Snooping	V1/V2/V3									
	STP/RSTP/MSTP	•									
	Loopback Detection	•									
	QinQ	•									
	VLAN	802.1Q/MAC/Protocol/Private²/Voice VLAN									
L2 Features	QoS	8 Queues, Port/802.1p/IP DSCP QoS									
	Rate Limit	•									
	Port Isolation		•								
	Port Mirroring	•									
	Link Aggregation	Static LAG, LACP									
	DHCP Snooping				•						
	Access Control List			,	•						
	IP+MAC+PORT+VID Binding			,	•						
	Storm Control				•						
Security	Port Security				•						
	SSH & SSL				•						
	DoS Defend				•						
	Dynamic ARP Inspection				•						
	SNMP			V1/V	2c/V3						
	RMON				1, 2, 3, 9						
	Command Line Interface (CLI)				net						
	Dual Image				•						
	sFlow	•			-						
System Management	Ethernet OAM	•			-						
	LLDP/LLDP-MED				•						
	IPv6				•						
	Firmware Upgrade				•						
	System Diagnose			VCT/Looback Detection/	CPU Monitor/Ping/Tracert						
	Web Interface/SYS LOG/ MIBS				•						

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

Power over Ethernet

Unmanaged / Easy Smart PoE Switches



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.

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



TI -SG1218MPF

16-Port Gigabit Easy Smart PoE+ Switch with 2 SFP Slots

16 10/100/1000Mbps RJ45 (All support 802.3at/af PoE+), 192W PoE Power Budget, 19-inch desktop/rackmount



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-SL1218MP

16-Port 10/100Mbps + 2-Port Gigabit Unmanaged PoE Switch

16 10/100Mbps RJ45 (All support 802.3at/af PoE+), 192W PoE Power Budget, 19-inch desktop/rackmount, Extend mode supports up to 250 meters' PoE Power Supply for surveillance cameras.



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-SG1005P

5-Port Gigabit Desktop Switch with 4-Port PoE

5 Gigabit RJ45 (Port $1\sim$ Port 4 support 802.3af PoE), 56W PoE Power Budget, desktop design



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-SG1008MP

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-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-SF1005F

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 F	Picture					annin :	*****		***************************************	***************************************
Mode	el	TL-SG1218MPE	TL-SG1016PE	TL-SG108PE	TL-SG1008MP	TL-SG1008P	TL-SG1005P	TL-SL1218MP	TL-SF1008P	TL-SF1005P
Product Description		16-Port Gigabit Easy Smart PoE+ Switch with 2 SFP Slots	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	16-Port 10/100Mbps + 2-Port Gigabit Unmanaged PoE Switch	8-Port 10/100Mbps Desktop Switch with 4-Port PoE	5-Port 10/100Mbps Desktop Switch with 4-Port PoE
	10/100Mbps RJ45 Port				-			16 (all ports support PoE+)	8, Port 1~4 support PoE	5, Port 1~4 support PoE
	Gigabit RJ45 Ports	16 (all ports support PoE+)	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)	2 (combo)	-	
	Gigabit SFP Slot	2			-			2 (combo)		
	Standards		IEEE802.3i, 802.3u, 802.3ab, 802.3x, 802.3ab, 802.3x, 802.3ab, 8				IEEE802.3i, 802.3u, 802.3ab, 802.3x, 802.3at, 802.3af	IEEE802.3i, 802.3i	л, 802.3x, 802.3af	
	Flow Control					•				
Hardware	PoE Power Budget	192W	110W	55W	126W	55W	56W	192W	57W	58W
	PoE Standard	802.3af/at	802.3af/at	802.3af	802.3af/at	802.3af		802.3af/at	802.3af	
	Fanless	-	1 Fan	•	1 Fan	,	•	2 Fan •		
	Certifications	CE, FCC								
	Dimensions (W × D × H)	17.3 × 7.1 × 1.7 in. (440 × 180 × 44 mm)	1.7 in. 11.6 × 7.1 × 1.7 in. 6.2 × 4.0 × 1.0 in. 11.6 × 7.1 × 1.7 in. (158 × 101 × 25 mm) (158 × 101 × 25 mm) mm)			6.7 × 3.9 × 1.1 in. (171 × 98 × 27 mm)		17.3 × 7.1 × 1.7 in. (440 × 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 ~ Operating Humidity: 10%~90% non-condensing; Storage Humidity: 5%~90%						~70°C (-40°F~158°F 6 non-condensing);	
	Switch Capacity	36Gbps	32Gbps	160	Sbps	16Gbps	10Gbps	7.2Gbps	1.6Gbps	1.0Gbps
Performance	Forwarding Rate	26.8Mpps	23.8Mpps	11.91	Mpps	11.9Mpps	7.4Mpps	5.4Mpps	1.2Mpps	0.74Mbps
	MAC Address Table	8K	8K	4	К	4K	2K	8K	2	K
	Jumbo Frame	10KB	10KB	16	KB	16	KB	10KB	214	(B
	IGMP Snooping			v1/v	2/v3					
	Link Aggregation (Static LAG)		•			-				
	Port Mirroring		•			-				
	Cable Test		•			-				
Software Features	Loop Prevention		•			-			-	
	VLAN		FU/Port/802.1Q VL/		-					
	QoS	4 Qui	eues, Port/802.1p/E	DSCP		802.1p/DSCP				
	Rate Limit		•			-				
	Strom Control		•			-				
	Firmware Upgrade		•			-				

Passive PoE Adapter

Powers TP-Link products that support 24V passive PoE

TL-POE2412G



Power over Ethernet PoE Adapters



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 Adapter

PoE Adapter for Simple Energy Supply

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-POE200

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

TL-POE10R

PoE Splitter

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

TL-POE2412G

PoE Adapter

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



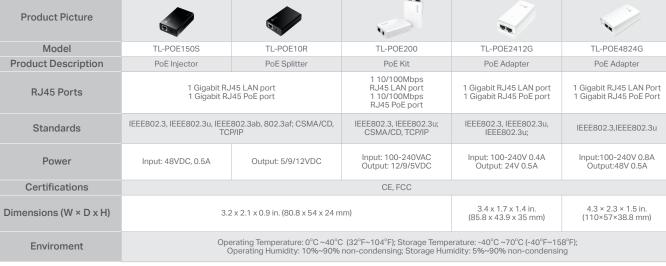
TL-POE4824G

PoE Adapter

- Passive PoE
- Plug-and-Play







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



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.

PHAROS≣ Outdoor Radio

High Performance Solution for Wireless Broadband and Outdoor Networking Applications

- 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



CPE605

5GHz 150Mbps 23dBi Outdoor CPE



CPE510

5GHz 300Mbps 13dBi Outdoor CPE



CPE210/CPE220

2.4GHz 300Mbps 9/12dBi Outdoor CPE



5/2.4GHz 300Mbps Outdoor Wireless Base Station





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			150Mbps Wireless N	
	Base S	Station		CPE				
Product Picture		A series		Jun 1	1	J.		
Model	WBS510	WBS210	CPE610	CPE510	CPE210	CPE220	CPE605	
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	5GHz 150Mbps 23dBi Outdoor CPE	
Memory Information				64MB DDR2, 8MB F	lash			
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	802.11a/n	
Frequency	5.15~5.85GHz	2.4~2.483GHz	5.15~5.85GHz	5.15~5.85GHz	2.4~2.483GHz	2.4~2.483GHz	5.15~5.85GHz	
Antenna	-	-	23dBi	13dBi	9dBi	12dBi	23dBi	
External Antenna Interface	2 RP-SMA connectors for MIMO antenna							
Transmission Power	270	lBm	27dBm	25dBm	25dBm	30dBm	23dBm	
Weatherproof Enclosure				•				
ESD Protection				15KV				
Lightning Protection				6KV				
MIMO				•				
Dual Ethernet Ports	10/100Mbps E	thernet Port * 2	10/100Mbps Ethernet Port * 1	10/100Mbps Ethernet Port * 1	10/100Mbps Ethernet Port * 1	10/100Mbps Ethernet Port * 2	10/100Mbps Ethernet Port*1	
Grounding Protection Terminal		•			•			
Power Supply Method				24V Passive PoE Adap	ter			
Operation Modes			AP / Client / Brid	dge / Repeater/ AP Router / .	AP Client Router (WISP)			
Advanced Functions			MAXtream TI	DMA Technology (Time Divis	sion Multiple Access)			
Remote Management			Central Network Manager	ment Applications; Web-bas	sed GUI management; SNM	P V2c		
Utilities		Antenna	Sp Adjustment; Distance Adju	pectrum Analyzer; Wireless stment; Ping Watch Dog; Th		s Speed Monitor		
Certifications	CE,FCC, F	toHS, IP65	CE,FCC, RoHS, IP65		CE,FCC, RoHS, IPX5		CE,FCC,RoHS,IP65	
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. (22	24.3 × 79 × 60.3 mm)	10.9 × 3.1 × 2.4 in. (275.8 × 79 × 60.4 mm)	13.8 × 9.8 × 8.1 in. (350 × 255 × 207 mm)	
Environment		Opera Op	ating Temperature: -40°C~70 perating Humidity: 10%~90°	0°C (-40°F~158°F), Storage % non-condensing, Storage	Temperature: -40°C~70°C (- Humidity: 5%~90% non-co	-40°F~158°F), ondensing		

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
Frequency	2.4GHz
Gain	9dBi
Туре	Directional
VSWR (MAX.)	1.92:1
HPBW/H (°)	60
HPBW/V (°)	76
Polarization	Linear;Vertical
Connector Type	RP-SMA Male Connector
Cable Material	CFD-200
Cabe Length	100cm
Mounting	Pole Mount Wall Mount
Application	Indoor/Outdoor
Optional Accessory	TL-ANT24EC3S TL-ANT24EC5S

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

⁴⁷ Business Networking Product Guide

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.



Routers

SafeStream VPN Routers



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.

SafeStream Gigabit VPN Routers

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

- 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-R600VPN

SafeStream Gigabit Multi-WAN VPN Router

Desktop, 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

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

Mode					
Product Discription		Product Picture	6 A A A A A	· · · · · · · · · · · · · · · · · · ·	<u> </u>
Name	Model		TL-ER6120	TL-ER6020	TL-R600VPN
Marchanics	Pr	oduct Description	SafeStream Gigabit Multi-WAN VPN Router	SafeStream Gigabit Multi-WAN VPN Router	SafeStream Gigabit Multi-WAN VPN Router
Peer Output		Interface	1 Giga	abit WAN port, 3 Gigabit WAN/LAN ports, 1 Gigabit LA	AN port
Marchinane		VPN Encryption Accelerator	•	•	-
		Power Supply	100-240VA	C, 50/60Hz	100-240VAC, 50/60Hz
Distriction (VV.D a 14)	Hardware	Certifications	CE, FCC		
Controlled Con		Dimensions (W x D x H)			
MAT Trisupport 1800		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		
Perc Property Pr		Concurrent Sessions	150,000	40,000	20,000
Part		NAT Throughput	800Mbps	940Mbps	680Mbps
	Performance	IPsec VPN Throughput	187Mbps	99Mbps	13Mbps
Perc VPN		WAN Connection Type	Dynamic/Static IP, PPPoE, PPTP, L2TI		Dynamic/Static IP, PPPoE, PPTP, L2TP, Dual Access, BigPond
		IPsec VPN Tunnel	100	64	20
		Authentication		MD5/SHA1	
Peac VPN					
	IPsec VPN				
Parfact Forward Secrety PFS DHI NOFICKES 10 16 16 16 16 16 16 16					
PPTP VPN Linvails					
PPTP VPN Server					
PPTP VPM Client			50	50 16	
PPTP With MPTE Encryption	PPTP VPN		•		
L2TP VPN Turnols 50 16		PPTP VPN Client		•	
L2TP VPN Server		PPTP With MPPE Encryption		•	
L2TP VPN Client		L2TP VPN Tunnels	50		16
L2TP VPK Client	I 2TP VPN	L2TP VPN Server		•	
Access Control List URL Meyword Filter		L2TP VPN Client	•		
Domain Filter Domain Filte		L2TP Over IPsec		•	
Domain Filter DoS Defense Earth		Access Control List	•		
DoS Defense		URL/Keyword Filter	•		
DoS Defense	Casuritus	Domain Filter	•		
MAC Filter	Security	DoS Defense	•		
Line Backup •		ARP Inspection	•		
Does		MAC Filter	•		
Smart Load Balance		Line Backup			
NAT Nat	Load Balance	Online Detection			
NAT Multiple-nets NAT • Virtual Server • Port Triggering • ALG • Routing • Policy Routing • Guarantee Max & Min Bandwidth • Bandwidth Control By IP/Port • Session Limit By IP • Authentication • Radius Sever Authentication • Onekey Online • Dynamic DNS Dyndns, No-IP, Peanuthull, Comexe		Smart Load Balance			
NAT Virtual Server • Port Triggering • ALG • Routing • Policy Routing • Policy Routing • Guarantee Max & Min Bandwidth • Bandwidth Control By IP/Port • Session Limit By IP • Local User Authentication • Radius Sever Authentication • Onekey Online • Service Dynamic DNS		One-to-One NAT		•	
Port Triggering		Multiple-nets NAT		•	
Port Triggering	NAT	Virtual Server			
ALG Routing Static Routing Policy Routing Guarantee Max & Min Bandwidth Bandwidth Control By IP/Port Session Limit By IP Authentication Radius Sever Authentication Onekey Online Dynamic DNS Policy Routing • Cuarantee Max & Min Bandwidth • Cuarantee Max & Min Band					
Routing Static Routing Policy Routing Guarantee Max & Min Bandwidth Bandwidth Control By IP/Port Session Limit By IP Local User Authentication Radius Sever Authentication Onekey Online Dynamic DNS Onekey Online Service Policy Routing Guarantee Max & Min Bandwidth Local User Authentication Radius Sever Authentication Onekey Online Dynamic DNS Onekey Online Dynamic DNS Onekey Online				•	
Routing Policy Routing Guarantee Max & Min Bandwidth Bandwidth Control By IP/Port Session Limit By IP Local User Authentication Radius Sever Authentication Onekey Online Dynamic DNS Onekey Online Policy Routing Guarantee Max & Min Bandwidth Control By IP/Port					
Guarantee Max & Min Bandwidth Bandwidth Control By IP/Port Session Limit By IP Local User Authentication Radius Sever Authentication Onekey Online Dynamic DNS Onekey Online Dynamic DNS Onekey Online Onekey Online Dynamic DNS Onekey Online Dynamic DNS Onekey Online Onekey Online Dynamic DNS Onekey Online Onekey Online Dynamic DNS	Routing			•	
QoS Bandwidth Control By IP/Port • Session Limit By IP • Local User Authentication • Radius Sever Authentication • Onekey Online • Dynamic DNS Dyndns, No-IP, Peanuthull, Comexe					
Session Limit By IP Local User Authentication Radius Sever Authentication Onekey Online Dynamic DNS Onekey Online Dynamic DNS Dyndns, No-IP, Peanuthull, Comexe	QoS				
Local User Authentication Radius Sever Authentication Onekey Online Dynamic DNS Dyndns, No-IP, Peanuthull, Comexe					
Web Authentication Radius Sever Authentication • Onekey Online • Dynamic DNS Dyndns, No-IP, Peanuthull, Comexe					
Authentication Onekey Online Dynamic DNS Dyndns, No-IP, Peanuthull, Comexe					
Dynamic DNS Dyndns, No-IP, Peanuthull, Comexe					
Service					
UPnP ●	Service				
		UPnP		•	

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Load Balance Broadband Routers



Load Balance Broadband Router

Suitable for demanding enterprise environment with large volumes of users

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.

- 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



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

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

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Model		TL-ER5120	TL-R480T+	TL-R470T+		
Product Description		Gigabit Load Balance Broadband Router	Load Balance Broadband Router	Load Balance Broadband Router		
	Interface	1 Gigabit WAN Port, 110/100Mbps WAN Port, 3 Gigabit WAN/LAN Ports, 3 10/100Mbps WAN/LAN Ports, 1 Gigabit LAN Port 110/100Mbps LAN Port				
	Power Supply	100-240VAC, 50/60Hz	100-240VAC, 50/60Hz	9VDC/0.6A		
	Certifications		CE, FCC			
Hardware	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°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	Cocurrent Sessions	150000	30000	10000		
Performance	NAT Throughput	800Mbps	100M	lbps		
	WAN Connection Type	Dynamic/Static IP, PPPoE, PPTP, L2TP, Dual Access, BigPond	PPPoE, Dynamic, Static IP, PPTP, L2TP, BigPond Cable			
	Rate Limit		•			
	Port Mirroring	•	-			
Network	Port VLAN	•				
	SNMP	V1/V2c				
	802.1Q VLAN	•				
	IPTV	•				
	IPv6	•				
	Access Control	•				
	URL/Keyword Filter	•				
Security	Domain Filter	•				
Security	DoS Defense	•				
	ARP Inspection	•				
	MAC Filter	•				
	Line Backup	•				
Load Balance	Online Detection	•				
	Smart Load Balance	•				
	One-to-One NAT	•				
	Multiple-nets NAT	•				
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	•				
6	Dynamic DNS	Dyndns, No-IP, Peanuthull, Comexe				
Service	UPnP		•			

Product Picture

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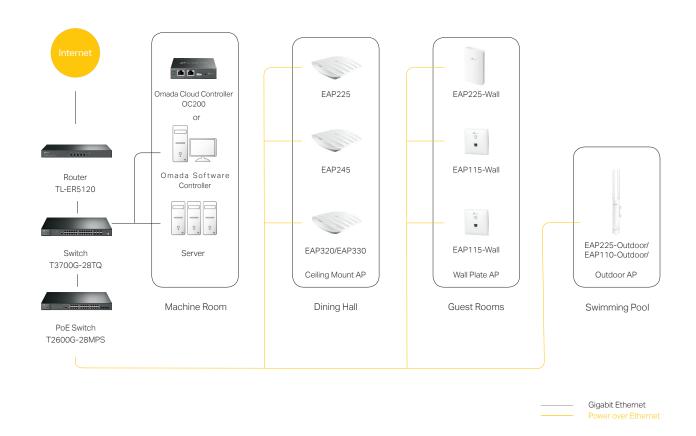


Business Solution for Education Networks

Stack

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.

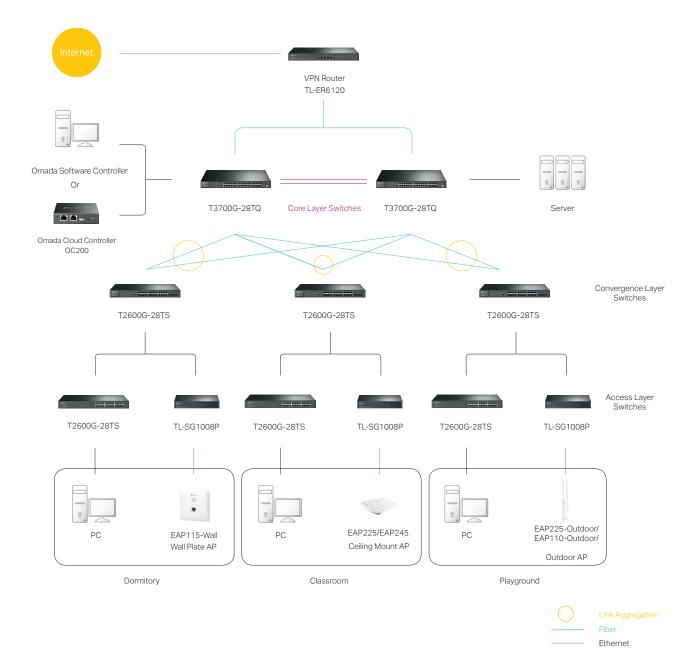


Solution Benefits

- 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.

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.



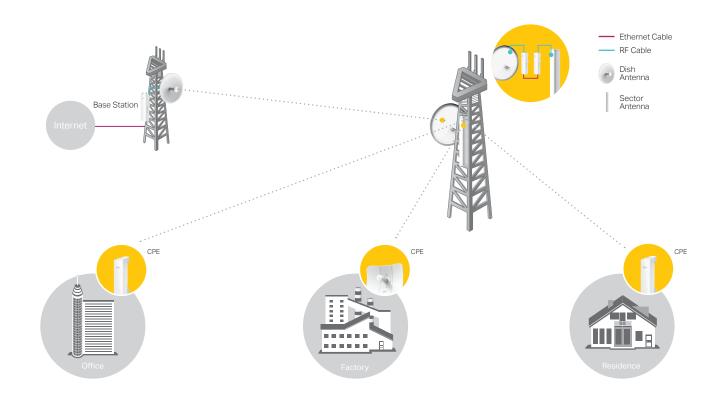
Solution Benefits

- 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.

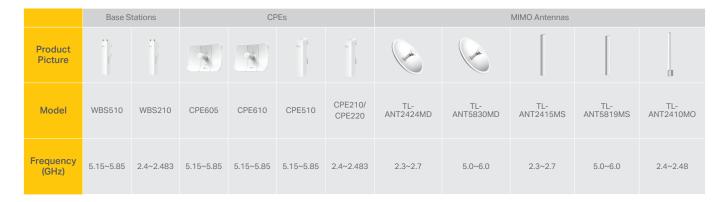
Business Solution for Wireless Broadband

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



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.
- $\bullet \ {\tt Pharos\ Control-Centralized\ Management\ System\ for\ large-scale\ network\ management}$
- Supports AP Router, AP Client Router, AP, AP Client, Multi-Bridge and Repeater Operation modes





Forums

Here, not only are you able to learn more about TP-Link products, but also your question can be answered professionally.



Stories

Find out how people all around the world are using TP-Link products. Hear about real usage scenarios and find new, imaginative ways to use your products.



Knowledge Base

Having trouble? Don't worry, all your questions can be answered here. This is a database that provides users with quick information guides.

