TP-Link TL-SG1024DE

Artikel	630983
Herstellernummer	TL-SG1024DE V4
EAN	0845973021245
TP-Link	

What This Product Does

The TL-SG1024DE 24-Port Gigabit Easy Smart switch is an ideal upgrade from an unmanaged switch, designed for Small and Medium Business networks that require simple network management. Network administrators can effectively monitor traffic via Port Mirroring, Loop Prevention and Cable Diagnostics features. To optimize traffic on your business network, TL-SG1024DE offers both port and tag based QoS to keep latency-sensitive traffic moving smoothly and jitter-free. Additionally, port-based, tag-based and MTU VLAN can improve security and meet more network segmentation requirements. Moreover, with its innovative energy-efficient technology, the TL-SG1024DE can save up to 40% of power consumption, making it an eco-friendly solution for your business network.

Simple & Effective Management

TP-LINK's Gigabit Easy Smart switch, TL-SG1024DE offers network monitoring for users to observe traffic behavior. With Port Mirroring, Loop Prevention and Cable Diagnostics features, TL-SG1024DE can identify and even locate connection problems on your business network. Moreover, administrators can designate the priority of the traffic based on Port Priority and 802.1P Priority, to ensure that voice and video are always clear, smooth and lag-free. Additionally, to improve security and network performance, TL-SG1024DE supports MTU VLAN, port-based VLAN and 802.1Q-based VLAN functions. TL-SG1024DE is an upgrade from the plug-and-play Unmanaged Switch, delivering great value while empowering your network and similarly delivering great value to the end user.

Go Green With Your Ethernet

You now have the choice to go green when upgrading to a gigabit network! This new generation of TL-SG1024DE 24-Port Gigabit Easy Smart Switch features the latest energy-efficient technologies that can greatly expand your network's capacity with much less power. It automatically adjusts power consumption according to the link status and cable length to limit the carbon footprint of your network.

Power down Idle Ports

When a computer or network equipment is off, the corresponding port of a traditional switch will continue to consume considerable amounts of power. The TL-SG1024DE can automatically detect the link status of each port and reduce the power consumption of ports that are idle.

Power Budget According to Cable Length

Ideally, shorter cables would use less power with less power degradation over their length; this is not the case with most devices as they will use the same amount of power across the cable regardless of whether it is 10 or 50 meters in length. The TL-SG1024DE analyzes the length of the Ethernet cable connected and adjusts the power usage accordingly, rather than keeping the power consumption in a conventional solution.

Ease of Use

TL-SG1024DE is easy to use and manage. Auto MDI/MDI-X crossover on all ports eliminates the need for crossover cables or uplink ports. Auto-negotiation on each port senses the link speed of a network device (either 10, 100, or 1000 Mbps) and intelligently adjusts for compatibility and optimal performance. Its compact size makes it ideal for desktops with limited space while also being rack-mountable, convenient and safe. Dynamic LED lights provide real-time work status display and basic fault diagnosis.

Zusammenfassung

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TP-Link 24-Port Gigabit Easy Smart Switch, Managed, L2, Gigabit Ethernet (10/100/1000), Rack mounting, 1U

TP-Link 24-Port Gigabit Easy Smart Switch. Switch type: Managed, Switch layer: L2. Basic switching RJ-45 Ethernet ports type: Gigabit Ethernet (10/100/1000), Basic switching RJ-45 Ethernet ports quantity: 24. MAC address table: 8000 entries, Switching capacity: 48 Gbit/s. Networking standards: IEEE 802.1Q, IEEE 802.1p, IEEE 802.3, IEEE 802.3ab, IEEE 802.3u, IEEE 802.3x. Rack mounting, Form factor: 1U

Merkmale

Logistics data

Harmonized System (HS) code	85176990

Performance

Compatible operating systems	Windows 98SE, NT, 2000, XP, Vista, Windows 7, Windows 8, MAC OS, NetWare, UNIX, Linux

Security

IGMP snooping	Y

Management features

Switch type	Managed
Switch layer	L2
Quality of Service (QoS) support	Y

Ports & interfaces

Basic switching RJ-45 Ethernet ports quantity	24
Basic switching RJ-45 Ethernet ports type	Gigabit Ethernet (10/100/1000)
Gigabit Ethernet (copper) ports quantity	24

Weight & dimensions

Width	294 mm
Depth	180 mm
Height	44 mm

Design

Rack mounting	Y
Form factor	1U
Product colour	Black
LED indicators	Y
Certification	FCC, CE, RoHS

Operational conditions

Operating temperature (T-T)	0 - 40 °C
Storage temperature (T-T)	-40 - 70 °C
Operating relative humidity (H-H)	10 - 90%
Storage relative humidity (H-H)	5 - 90%
Heat dissipation	48.39 BTU/h

Power

Power source	AC
Power supply included	Y
AC input voltage	100 - 240 V
AC input frequency	50 - 60 Hz
Power consumption (max)	14.19 W

Data transmission

Switching capacity	48 Gbit/s
Forwarding rate	35.7 Mpps
MAC address table	8000 entries
Number of queues	4
Jumbo frames support	Y
Jumbo frames	10000
Packet buffer memory	4.1 MB

Packaging data

Cables included	AC
User guide	Y
Package type	Box
Rack mount kit	Y
Package width	400 mm
Package depth	250 mm
Package height	80 mm
Package weight	2.02 kg

Network

Networking standards	IEEE 802.1Q, IEEE 802.1p, IEEE 802.3, IEEE 802.3ab, IEEE 802.3u, IEEE 802.3x
10G support	N
Copper ethernet cabling technology	10BASE-T, 100BASE-TX, 1000BASE-T
Port mirroring	Y
Flow control support	Y
Link aggregation	Y
Broadcast storm control	Y

Auto MDI/MDI-X	Y
Auto-negotiation	Y
VLAN support	Y
Virtual LAN features	Port-based VLAN, Tagged VLAN
Number of VLANs	32