TP-LINK
TL-SG2216
16-Port Gigabit Smart Switch

TP-LINK

16-Port Gigabit Smart Switch with 2 Combo SFP Slots

TL-SG2216

Overview

TP-LINK gigabit Smart Switch TL-SG2216 is equipped with 16 gigabit RJ45 ports and 2 combo SFP slots. The switch provides high performance, enterprise-level QoS, useful security strategies and rich layer 2 management features.

TP-LINK gigabit Smart Switch TL-SG2216 is a cost-effective product solution for the small and medium business. TL-SG2216 has useful security features. The Storm Control feature protects against broadcast, multicast and unknown unicast storm. Quality of Service (QoS, L2 to L4) provides enhanced traffic management capabilities to move your data smoother and faster. Anymore, the easy-to-use web management interfaces, along with CLI, SNMP and RMON, mean faster setup and configuration with less downtime. For workgroup and departments requiring cost-sensitive layer 2 switch and gigabit capability, TP-LINK gigabit Smart Switch TL-SG2216 provides you the ideal access-edge solution.

Layer 2 Features

- Link Aggregation Control Protocol (LACP)
- Static Link Aggregation
- 512 VLANs
- Port Isolation
- STP/RSTP/MSTP
- IGMP Snooping

Quality of Service

- 4 priority queues
- Support IEEE 802.1P
- DSCP QoS
- Rate limit feature

Security Strategies

- Port Security
- Access Control List(L2~L4 ACL)
- Storm Control
- SSL and SSH encryptions
- DHCP Filtering

Management

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

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Global technical support

- Details:http://www.tp-link.com/support/Localesupport.asp
- German/Austrian/Swiss users are not included

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Advanced QoS features

To integrate voice, data and video service on one network, the switch applies rich QoS policies. Administrator can designate the priority of the traffic based on a variety of means including Port Priority, 802.1P Priority and DSCP Priority, to ensure that voice and video are always clear, smooth and jitter free.

Abundant Layer 2 features

For more application of layer 2 switches, TL-SG2216 supports a complete lineup of layer 2 features, including 802.1Q tag VLAN, Port Isolation, Port Mirroring, STP/RSTP/MSTP, LACP and 802.3x Flow Control function. Any more, the switches provide advanced features for network maintenance. Such as Loop Back Detection, Cable Diagnostics and IGMP Snooping. IGMP snooping ensures the switch intelligently forward the multicast stream only to the appropriate subscribers while IGMP throttling & filtering restrict each subscriber on a port level to prevent unauthorized multicast access.

Enterprise Level Management Features

TL-SG2216 is easy to use and manage. It supports various user-friendly standard management features, such as intuitive web-based Graphical User Interface (GUI) or industry-standard Command Line Interface(CLI) through Telnet Management Mode. SNMP (v1/2/3) and RMON support enables the switch to be polled for valuable status information and send traps on abnormal events.

Specifications

Hardware Features & Performance

Product Picture		
Model		**TL-SG2216**
Physical Features		
Connector	**10/100/1000Mbps RJ45 Port**	16
	Gigabit SFP Port	2(Combo)
Power Supply		100-240VAC, 50/60Hz
Fan Quantity		Fanless
Certification		CE, FCC
Dimensions (W x D x H)		17.3 x 7.1 x 1.7 in. (440 x 180 x 44 mm), 19-inch Rack mount Steel Case, 1U Height
Environment		Operating Temperature: 0℃~40℃(32℉~104℉); Storage Temperature: -40℃~70℃(-40℉~158℉); Operating Humidity: 10%~90% non-condensing; Storage Humidity: 5%~90% non-condensing
Performance		
Switch Capacity		32Gbps
Forwarding Rate		23.8Mpps
Mac Address Table		8k
Package Buffer Memory		4Mb
Jumbo Frame		10KB

Software Features

L2 Switching Features

- **Link Aggregation**
  - Support 802.3ad LACP
  - Support static link aggregation
  - Up to 6 aggregation groups, containing 4 ports per group
- **Spanning Tree Protocol(STP)**
  - IEEE 802.1D Spanning Tree Protocol
  - IEEE 802.1W Rapid Spanning Tree Protocol
  - IEEE 802.1S Multiple Spanning Tree Protocol
  - STP Security: Loop back detection, TC Protect, BPDU Filter/Protect, Root Protect
- **Multicast**
  - Support IGMP Snooping V1/V2/V3, up to 256 groups
  - Support multicast VLANs, IGMP Immediate Leave, Unknown IGMP Throttling, IGMP Filtering, Static Multicast IP
- **VLAN**
  - Support IEEE802.1Q with 512 VLANs simultaneously (out of 4K VIDs)

IEEE 802.3x flow control for Full Duplex mode and backpressure for Half Duplex mode

Quality of Service (QoS)

- Support 802.1p CoS/DSCP priority
- Support 4 priority queues
- Queue scheduling: SP, WRR, SP+WRR
- Port/Flow- based Rate Limiting
- Voice VLAN assure voice applications much smoother performance

Advanced Security Strategies

- Support Broadcast, Multicast and Unknown unicast Storm Control
- Static/Dynamic Port Security (MAC-based)
- Access Control List (ACL)-L2~L4 package filtering based on source and destination MAC address, IP address, TCP/UDP ports
- SSL and SSH encryptions

Management

- Support Web-based GUI management mode
- Support Command Line Interface(CLI) through telnet
- management mode
- SNMP v1/v2c/v3
- RMON (1, 2, 3, 9 groups)
- DHCP/BOOTP Client
- CPU Monitoring
- Port Mirroring (Many to One)
- Cable Diagnostics feature
- Ping/Tracert feature
- System Log

Ethernet Protocols

- IEEE 802.3i 10BASE-T
- IEEE 802.3u 100BASE-TX/FX
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3z 1000BASE-X
- IEEE 802.3x Flow control
- IEEE 802.1p QoS
- IEEE 802.1q VLANs / VLAN tagging
- IEEE 802.1D Spanning Tree Protocol (STP)
- IEEE 802.1W Rapid Spanning Tree (RSTP)
- IEEE 802.1S Multiple Spanning Tree (MSTP)

MIBs

- MIB II (RFC1213)
- Interface MIB (RFC2233)
- Ethernet Interface MIB (RFC1643)
- Bridge MIB (RFC1493)
- P/Q-Bridge MIB (RFC2674)
- RMON MIB (RFC2819)
- RMON2 MIB (RFC2021)
- Remote Ping, Traceroute MIB (RFC2925)
- Support TP-LINK private MIBs

Ordering Information

Host Switch	
Product Model	Description
TL-SG2424	16-Port Gigabit Smart Switch with 2 Combo SFP Slots
Router	
Product Model	Description
TL-ER6120	SafeStream Gigabit Dual-WAN VPN Router
TL-ER5120	Gigabit Load Balance Broadband Router
SFP Modules	
Product Model	Description
TL-SM311LS	Gigabit SFP module, Single-mode, LC interface, Up to 10km distance
TL-SM311LM	Gigabit SFP module, Multi-mode, LC interface, Up to 550m distance
TL-SM321A	Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX:1550nm/RX:1310nm, 10km
TL-SM321B	Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX:1310nm/RX:1550nm, 10km
Media Converter	
Product Model	Description
MC210CS	Gigabit single-mode SC SFP Transceiver, up to 15Km, chassis mountable
MC200CM	Gigabit multi-mode SC SFP Transceiver, up to 550m, chassis mountable
MC220L	Gigabit SFP slot supporting mini-GBIC modules, chassis mountable
MC1400	14-slot power supply chassis for TP-LINK Media Converter, 19-inch rack-mountable