

Switch Smart 18 Puertos / 16 Puertos PoE+ 802.3af/at / 150 W / 2 Ranuras SFP / Switching 36 Gbps / Enrutamiento Estático L2+ / Fanless / Rack 440 mm (17.3 in)

SKU: SG2218P Marca: TP-LINK Categoría: Switches PoE

Garantía: 5 años

$6,261.07

Precios con IVA incluido

DESCRIPCIÓN

Switch smart de 18 puertos Gigabit diseñado para implementaciones empresariales que requieren alimentación PoE y gestión inteligente centralizada. Equipa 16 puertos PoE+ 802.3af/at con presupuesto total de 150 W y hasta 30 W por puerto, permitiendo alimentar puntos de acceso, cámaras IP, teléfonos VoIP y otros dispositivos de red convergentes. Sus 2 ranuras SFP Gigabit ofrecen conectividad de fibra óptica para enlaces de uplink de alta velocidad. Con capacidad de switching de 36 Gbps y tasa de reenvío de 26.78 Mpps, este switch con arquitectura store-and-forward integra enrutamiento estático L2+, soporte completo de IPv6 y gestión cloud SDN vía Omada para despliegues multisitio sin controladores locales.

Características Generales
• 16 puertos PoE+ 802.3af/at con presupuesto total de 150 W (hasta 30 W por puerto)
• 2 ranuras SFP Gigabit para conectividad de fibra óptica
• Capacidad de conmutación de 36 Gbps y tasa de reenvío de 26.78 Mpps
• Enrutamiento estático L2+ con 32 rutas IPv4/IPv6
• Gestión centralizada en la nube vía Omada SDN
• Arquitectura fanless (sin ventilador) para operación silenciosa
• Carcasa metálica montable en rack de 440 mm (17.3 in)
• Seguridad avanzada: 802.1X, ACL y DoS Defend
• Arquitectura store-and-forward

Desempeño
• Capacidad de switching: 36 Gbps
• Tasa de reenvío: 26.78 Mpps
• Arquitectura: Store-and-forward
• Tabla MAC: 8K
• Jumbo frame: 9 KB

Físicas y Eléctricas
• Puertos PoE+: 16 (802.3af/at, hasta 30 W/puerto)
• Presupuesto PoE total: 150 W
• Ranuras SFP: 2 Gigabit
• Consumo máximo: 160.51 W (220 V), 160.73 W (110 V)
• Dimensiones: 440 × 180 × 44 mm (17.3 × 7.1 × 1.7 in)
• Montaje: Rack 19' (440 mm / 17.3 in ancho)
• Carcasa: Metálica
• Refrigeración: Fanless (sin ventilador)

Gestión y Seguridad
• Gestión cloud: Omada SDN (App y portal web)
• Enrutamiento estático L2+: 32 rutas IPv4/IPv6
• Control de acceso: 802.1X (port-based, MAC-based)
• ACL: L2/L3/L4
• Protección DoS Defend
• Soporte completo IPv6
• VLAN: 4K, protocol-based, voice VLAN
• QoS: 8 colas, 802.1p, DSCP
• Spanning Tree: STP/RSTP/MSTP
• Link Aggregation: hasta 8 grupos, 8 puertos/grupo
• Port mirroring, cable diagnostics, loop prevention

ESPECIFICACIONES

Característica 1	**Gestión centralizada cloud vía Omada SDN para múltiples sitios**
Característica 2	**Alimentación PoE+ 30 W por puerto para APs, cámaras IP y VoIP**
Característica 3	**Arquitectura fanless para operación silenciosa en oficinas**
Característica 4	**Enrutamiento estático L2+ con 32 rutas IPv4/IPv6 integradas**
Característica 5	**Seguridad de red con 802.1X, ACL y protección DoS Defend**
Característica 6	**Carcasa metálica rackable 440 mm para instalación estándar**

MEMORIA TÉCNICA · SG2218P

Número de parte de esta ficha: SG2218P. La información corresponde a esta variante.

SG2218P V2
Omada 18-Port Gigabit Smart Switch with 16-Port PoE+
Omada Smart Switch | Datasheet
- 16× Gigabit 802.3af/at PoE+ ports and 2× Gigabit SFP Slots
- 150 W total PoE budget with up to 30 W PoE output per port*
- Centralized cloud management via the web or the Omada app†
- Standalone management via web, CLI, SNMP, and RMON
- Static Routing helps route internal traffic for higher efficiency
- VLAN, ACL, QoS, and IGMP Snooping
- Durable metal casing and rackmountable design
Highlights
- Product Pictures

Omada’s Software Defined Networking (SDN) platform integrates network devices, including access points, switches, and gateways, providing 100% centralized cloud management. Omada creates a highly scalable network—all controlled from a single interface.
Omada Solution
Hassle-Free Cloud or
On-Premises Controllers
Multi-Site Cloud Management
Zero-Touch Provisioning (ZTP)
†
Intelligent Monitoring
440 mm
180 mm
44 mm
16 ? Gigabit PoE+ RJ45 Ports2? Gigabit SFP Slots
- Specifications
Hardware Features & Performance
Model SG2218P V2
General
Interface
16× 10/100/1000 Mbps PoE+ RJ45 Ports
(Auto Negotiation/Auto MDI/MDIX)
2× Gigabit SFP Slots
Flash 32 MB
DRAM 256 MB
Port Standard
IEEE 802.3i:10BASE-T Ethernet;
IEEE 802.3u:100BASE-X Fast Ethernet;
IEEE 802.3ab:1000BASE-T Gigabit Ethernet;
IEEE 802.3z:1000BASE-X Gigabit Ethernet (Optical fiber)
PoE
PoE Standard 802.3af/at
PoE Ports 16, up to 30 W per port
PoE Power Budget 150 W
Performance
Switching Capacity 36 Gbps
Packet Forwarding Rate 26.78 Mpps
MAC Address Table 8K
Packet Buffer 4.1 Mbit
Transmission Method Store and Forward
Number of IP Interfaces 32
Number of Static Routers 32 (IPv4, IPv6)
Jumbo Frame 9 KB
Physical &
Environment
Power Supply 100-240V AC, 50/60Hz
Max Power Consumption 181.32 W (110 V/60 Hz) (with 150 W PD connected)
Max Heat Dissipation 616.49 BTU/hr (110 V/60 Hz) (with 150 W PD connected)
Standby Power Consumption 8.58 W (no link,110v/60 Hz)
Dimensions (W x D x H) 17.3×7.1×1.7 in (440×180×44 mm)
Surge Protection 6 KV for Ethernet Ports and 4 KV for Power Module
Fan Quantity Fanless
Installation Rack Mountable
Operating Temperature 0 °C to 45 °C (32 °F to 113 °F)
Storage Temperature -40 °C to 70 °C (-40 °F to 158 °F)
Operation Humidity 10% to 90% RH, non-condensing
Storage Humidity 5% to 90% RH, non-condensing
Certification CE, FCC, RoHS
- Software Features
Model SG2218P V2
SDN Support
- Support Hardware Controller, Software Controller, Cloud-Based Controller
- Automatic Device Discovery
- Batch Configuration
- Batch Firmware Upgrading
- Intelligent Network Monitoring
- Abnormal Event Warnings
- Unified Configuration
- Reboot Schedule
L2+ Features
- 32 IP Interfaces
- - Support IPv4/IPv6 Interface
- Static Routing
- - 32 IPv4/IPv6 Static Routes
- DHCP Server
- DHCP Relay
- - DHCP Interface Relay
- - DHCP VLAN Relay
- DHCP L2 Relay
- Static ARP
- Proxy ARP
- Gratuitous ARP
L2 Features
- Link Aggregation
- - Static link aggregation
- - 802.3ad LACP
- - Up to 8 aggregation groups and up to 8 ports per group
- Spanning Tree Protocol
- - 802.1D STP
- - 802.1w RSTP
- - 802.1s MSTP
- - STP Security: TC Protect, BPDU Filter/Protect, Root Protect
- Loopback Detection
- Flow Control
- - 802.3x Flow Control
- Mirroring
- - Port Mirroring
- - CPU Mirroring
- - One-to-One
- - Many-to-One
- - Flow-Based
- - Ingress/Egress/Both
- Device Link Detect Protocol (DLDP)
- 802.1ab LLDP/ LLDP-MED
L2 Multicast
- 511 IPv4, IPv6 shared multicast groups
- IGMP Snooping
- - IGMP v1/v2/v3 Snooping
- - Fast Leave

- - IGMP Snooping Querier
- - Static Group Config
- Multicast VLAN Registration (MVR)
- Multicast Filtering
- MLD Snooping
- - MLD v1/v2 Snooping
- - Fast Leave
- - MLD Snooping Querier
- - Static Group Config
- Limited IP Multicast (256 profiles and 16 entries per profile)
- Software Features

Model SG2218P V2

VLAN

- VLAN Group
- - Max. 4K VLAN Groups
- 802.1Q tag VLAN
- MAC VLAN (16 entries)
- Protocol VLAN
- GVRP
- Voice VLAN

QoS

- 802.1p CoS/DSCP priority
- 8 priority queues
- Priority Schedule Mode
- - SP (Strict Priority)
- - WRR (Weighted Round Robin)
- Queue Weight Config
- Bandwidth Control
- - Port/Flow based Rating Limit
- Smoother Performance
- Storm Control
- - Multiple Control Modes(kbps/ratio)
- - Broadcast/Multicast/Unknown-Unicast Control

ACL

- Support up to 230 entries
- Time-Range
- - Time Slice
- - Week Time-Range
- - Absolute Time-Range
- - Holiday
- Time-based ACL
- MAC ACL
- - Source MAC
- - Destination MAC
- - VLAN ID
- - User Priority
- - Ether Type
- IP ACL
- - Source IP
- - Destination IP
- - IP Protocol
- - TCP Flag
- - TCP/UDP Source Port
- - TCP/UDP Destination Port
- - DSCP/IP TOS
- IPv6 ACL
- Combined ACL
- Rule Operation
- - Permit/Deny
- Policy Action
- - Mirror
- - Rate Limit
- - Redirect
- - QoS Remark
- ACL Rules Binding
- - Port Binding
- - VLAN Binding
- Software Features

Model SG2218P V2

ACL

- Actions for flows
- - Mirror (to supported interface)
- - Redirect (to supported interface)
- - Rate Limit
- - QoS Remark

Security

- AAA
- 802.1X
- - Port based authentication
- - MAC (Host) based authentication
- - Authentication Method includes PAP/EAP-MD5
- - MAB
- - Guest VLAN
- - Support Radius authentication and accountability
- IP/IPv6-MAC Binding
- - 512 Binding Entries
- - DHCP Snooping
- - DHCPv6 Snooping
- - ARP Inspection
- - ND Detection
- - ND Snooping
- IP Source Guard
- - 253 Entries
- - Source IP+Source MAC
- IPv6 Source Guard
- - 183 Entries
- - Source IPv6 Address+Source MAC
- DoS Defend
- DHCP Filter
- Static/Dynamic/Permanent Port Security
- - Up to 64 MAC addresses per port
- Broadcast/Multicast/Unicast Storm Control
- - kbps/ratio control mode
- Port Isolation
- Secure web management through HTTPS with SSLv3/TLS 1.2
- Secure Command Line Interface (CLI) management with SSHv1/SSHv2
- IP/Port/MAC based access control

IPv6 Support

- IPv6 Static Routing and ACL
- IPv6 Dual IPv4/IPv6
- IPv6 Interface
- Multicast Listener Discovery (MLD) Snooping
- IPv6 neighbor discovery (ND)
- Path maximum transmission unit (MTU) discovery
- Internet Control Message Protocol (ICMP) version 6
- TCPv6/UDPv6
- IPv6 applications
- - DHCPv6 Client
- - Ping6
- - Tracert6
- - Telnet(v6)
- - IPv6 SNMP
- - IPv6 SSH
- - IPv6 SSL
- - Http/Https
- - IPv6 TFTP
- Software Features

Model SG2218P V2

Management

- Web-based GUI
- Command Line Interface (CLI) through telnet
- SNMPv1/v2c/v3
- SNMP Trap/Inform
- RMON (1,2,3,9 groups)
- SDM Template
- DHCP/BOOTP Client
- Dual Image, Dual Configuration
- CPU Monitoring
- DDM
- Cable Diagnostics
- EEE
- SNTP
- System Log

MIBs

- MIB II (RFC1213)
- Bridge MIB (RFC1493)
- P/Q-Bridge MIB (RFC2674)
- Radius Accounting Client MIB (RFC2620)
- Radius Authentication Client MIB (RFC2618)
- Remote Ping, Traceroute MIB (RFC2925)
- Support TP-Link private MIBs
- RMON MIB(RFC1757, rmon 1,2,3,9)
- Ordering Information

Host Switch

Model Description

SG2218P V2 Omada 18-Port Gigabit Smart Switch with 16-Port PoE+

†Centralized cloud management functions require the use of the Omada SDN Controller. Zero-Touch Provisioning requires the use of the Omada Cloud-Based Controller. Go to the Omada Cloud-Based Controller Product List to find all the models supported by the Omada Cloud-Based Controller.

*PoE budget calculations are based on laboratory testing. The actual PoE power budget is not guaranteed and will vary due to client limitations and environmental factors.

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SFP Modules

Model Description

SM311LS Gigabit SFP module, Single-mode, LC interface, Up to 20km distance

SM311LM Gigabit SFP module, Multi-mode, LC interface, Up to 550m distance

SM321A Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX: 1550 nm/RX: 1310 nm, 20 km

SM321A-2 Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX: 1550 nm/RX: 1310 nm, 2 km

SM321B Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX: 1310 nm/RX: 1550 nm, 20 km

SM321B-2 Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX: 1310 nm/RX: 1550 nm, 2 km

MC Series Media Converter

Model Description

MC210CS Gigabit Single-Mode Media Converter, up to 20 km, chassis mountable

MC200CM Gigabit Multi-Mode Media Converter, up to 550 m, chassis mountable

MC220L Gigabit SFP Media Converter, chassis mountable

MC1400 14-slot power supply chassis for TP-LINK MC Series Media Converter, 19-inch rack-mountable

RJ45 SFP Modules

Model Description

SM331T 1000BASE-T RJ45 SFP Module

FC Series Media Converter

Model Description

FC111A-20 100Mbps Single-Mode WDM Media Converter, up to 20 km, TX:1550nm, RX:1310nm, chassis mountable

FC111B-20 100Mbps Single-Mode WDM Media Converter, up to 20 km, TX:1310nm, RX:1550nm, chassis mountable

FC311A-2 Gigabit Single-Mode WDM Media Converter, up to 2 km, TX:1550nm, RX:1310nm, chassis mountable

FC311B-2 Gigabit Single-Mode WDM Media Converter, up to 2 km, TX:1310nm, RX:1550nm, chassis mountable

FC311A-20 Gigabit Single-Mode WDM Media Converter, up to 20 km, TX:1550nm, RX:1310nm, chassis mountable

FC311B-20 Gigabit Single-Mode WDM Media Converter, up to 20 km, TX:1310nm, RX:1550nm, chassis mountable

FC1400 14-slot power supply chassis for TP-LINK FC Series Media Converter, 19-inch rack-mountable