



## SG3428X



### CARACTERÍSTICAS DE HARDWARE

|                          |                                                                                                                                                                                  |
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| Interface                | <ul style="list-style-type: none"><li>• 24× 10/100/1000 Mbps RJ45 Ports</li><li>• 4× 10G SFP+ Slots</li><li>• 1× RJ45 Console Port</li><li>• 1× Micro-USB Console Port</li></ul> |
| Cantidad de Ventiladores | Fanless                                                                                                                                                                          |
| Fuente de Alimentación   | 100-240 V AC~50/60 Hz                                                                                                                                                            |
| Dimensiones (W X D X H)  | 17.3 × 7.1 × 1.7 in<br>(440 × 180 × 44 mm)                                                                                                                                       |
| Montaje                  | Rack Mountable                                                                                                                                                                   |



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| Consumo<br>Máximo de<br>energía  | 23.6 W (110V/60Hz)            |
| Disipación<br>Máxima de<br>Calor | 80.353 BTU/h (110<br>V/60 Hz) |

## RENDIMIENTO

|                                       |            |
|---------------------------------------|------------|
| Capacidad<br>de<br>Switcheo           | 128 Gbps   |
| Tasa de<br>Reenvío<br>de<br>Paquetes  | 95.23 Mpps |
| Tabla de<br>MAC<br>Address            | 16 K       |
| Paquetes<br>de<br>Memoria<br>de búfer | 12 Mbit    |
| Jumbo<br>Frame                        | 9 KB       |



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| Calidad de servicio | <ul style="list-style-type: none"><li>• 8 priority queues</li><li>• 802.1p CoS/DSCP priority</li><li>• Queue scheduling<ul style="list-style-type: none"><li>- SP (Strict Priority)</li><li>- WRR (Weighted Round Robin)</li><li>- SP+WRR</li></ul></li><li>• Bandwidth Control<ul style="list-style-type: none"><li>- Port/Flow based Rating Limiting</li></ul></li><li>• Smoother</li><li>Performance<ul style="list-style-type: none"><li>• Action for Flows<ul style="list-style-type: none"><li>- Mirror (to supported interface)</li><li>- Redirect (to supported interface)</li><li>- Rate Limit</li><li>- QoS Remark</li></ul></li></ul></li></ul> |
| L3 Features         | <ul style="list-style-type: none"><li>• 16 IPv4/IPv6 Interfaces</li><li>• Static Routing<ul style="list-style-type: none"><li>- 48 static routes</li></ul></li><li>• Static ARP<ul style="list-style-type: none"><li>- 128 Static Entries</li></ul></li><li>• Proxy ARP</li><li>• Gratuitous ARP</li><li>• DHCP Server</li><li>• DHCP Relay<ul style="list-style-type: none"><li>- DHCP Interface Relay</li></ul></li></ul>                                                                                                                                                                                                                                |



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|                              | <ul style="list-style-type: none"><li>- DHCP VLAN Relay</li><li>• DHCP L2 Relay</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Características de L2 y L2 + | <ul style="list-style-type: none"><li>• Link Aggregation<ul style="list-style-type: none"><li>- static link aggregation</li><li>- 802.3ad LACP</li><li>- Up to 8 aggregation groups, containing 8 ports per group</li></ul></li><li>• Spanning Tree Protocol<ul style="list-style-type: none"><li>- 802.1d STP</li><li>- 802.1w RSTP</li><li>- 802.1s MSTP</li><li>- STP Security: TC Protect, BPDU Filter, Root Protect</li></ul></li><li>• Loopback Detection<ul style="list-style-type: none"><li>- Port based</li><li>- VLAN based</li></ul></li><li>• Flow Control<ul style="list-style-type: none"><li>- 802.3x Flow Control</li><li>- HOL Blocking Prevention</li></ul></li><li>• Mirroring<ul style="list-style-type: none"><li>- Port Mirroring</li><li>- CPU Mirroring</li><li>- One-to-One</li><li>- Many-to-One</li><li>- Tx/Rx/Both</li></ul></li></ul> |
| L2 Multicast                 | <ul style="list-style-type: none"><li>• IGMP Snooping</li><li>- IGMP v1/v2/v3</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |



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|                           | <p>Snooping</p> <ul style="list-style-type: none"><li>- Fast Leave</li><li>- IGMP Snooping</li></ul> <p>Querier</p> <ul style="list-style-type: none"><li>- IGMP Authentication</li><li>• IGMP Authentication</li><li>• MLD Snooping</li><li>- MLD v1/v2 Snooping</li><li>- Fast Leave</li><li>- MLD Snooping</li></ul> <p>Querier</p> <ul style="list-style-type: none"><li>- Static Group Config</li><li>- Limited IP Multicast</li><li>• MVR</li><li>• Multicast Filtering:<br/>256 profiles and 16<br/>entries per profile</li></ul> |
| Características Avanzadas | <ul style="list-style-type: none"><li>• Support Omada Hardware Controller (OC200/OC300), Software Controller, Cloud-Based Controller</li><li>• Automatic Device Discovery</li><li>• Batch Configuration</li><li>• Batch Firmware Upgrading</li><li>• Intelligent Network Monitoring</li><li>• Abnormal Event Warnings</li><li>• Unified Configuration</li></ul>                                                                                                                                                                          |



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|                            | <ul style="list-style-type: none"><li>• Reboot Schedule</li><li>• ZTP (Zero-Touch Provisioning)*</li></ul>                                                                                                                                                                                                                                                                                                                                 |
| VLAN                       | <ul style="list-style-type: none"><li>• VLAN Group<ul style="list-style-type: none"><li>- Max 4K VLAN Groups</li></ul></li><li>• 802.1Q Tagged VLAN</li><li>• MAC VLAN: 7 Entries</li><li>• Protocol VLAN: Protocol Template 16, Protocol VLAN 16</li><li>• Private VLAN</li><li>• GVRP</li><li>• VLAN VPN (QinQ)<ul style="list-style-type: none"><li>- Port-Based QinQ</li><li>- Selective QinQ</li></ul></li><li>• Voice VLAN</li></ul> |
| Lista de control de acceso | <ul style="list-style-type: none"><li>• Time-based ACL</li><li>• MAC ACL<ul style="list-style-type: none"><li>- Source MAC</li><li>- Destination MAC</li><li>- VLAN ID</li><li>- User Priority</li><li>- Ether Type</li></ul></li><li>• IP ACL<ul style="list-style-type: none"><li>-Source IP</li><li>- Destination IP</li><li>- Fragment</li><li>- IP Protocol</li><li>- TCP Flag</li></ul></li></ul>                                    |



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|           | <ul style="list-style-type: none"><li>- TCP/UDP Port</li><li>- DSCP/IP TOS</li><li>- User Priority</li><li>• Combined ACL</li><li>• Packet Content ACL</li><li>• IPv6 ACL</li><li>• Policy</li><li>- Mirroring</li><li>- Redirect</li><li>- Rate Limit</li><li>- QoS Remark</li><li>• ACL apply to Port/VLAN</li></ul>                                                                                                                                                      |
| Seguridad | <ul style="list-style-type: none"><li>• IP-MAC-Port Binding</li><li>- 512 Entries</li><li>- DHCP Snooping</li><li>- ARP Inspection</li><li>- IPv4 Source Guard: 100 Entries</li><li>• IPv6-MAC-Port Binding</li><li>- 512 Entries</li><li>- DHCPv6 Snooping</li><li>- ND Detection</li><li>- IPv6 Source Guard: 100 Entries</li><li>• DoS Defend</li><li>• Static/Dynamic Port Security</li><li>- Up to 64 MAC addresses per port</li><li>• Broadcast/Multicast/U</li></ul> |



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|      | <ul style="list-style-type: none"><li>unicast Storm Control<ul style="list-style-type: none"><li>- kbps/ratio control mode</li><li>• 802.1X</li></ul></li><li>- Port base authentication</li><li>- Mac base authentication</li><li>- VLAN Assignment</li><li>- MAB</li><li>- Guest VLAN</li><li>- Support Radius authentication and accountability</li><li>• AAA (including TACACS+)</li><li>• Port Isolation</li><li>• Secure web management through HTTPS with SSLv3/TLS 1.2</li><li>• Secure Command Line Interface (CLI) management with SSHv1/SSHv2</li><li>• IP/Port/MAC based access control</li></ul> |
| IPv6 | <ul style="list-style-type: none"><li>• IPv6 Dual IPv4/IPv6</li><li>• Multicast Listener Discovery (MLD) Snooping</li><li>• IPv6 ACL</li><li>• IPv6 Interface</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                       |



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|                | <ul style="list-style-type: none"><li>• Static IPv6 Routing</li><li>• IPv6 neighbor discovery (ND)</li><li>• Path maximum transmission unit (MTU) discovery</li><li>• Internet Control Message Protocol (ICMP) version 6</li><li>• TCPv6/UDPv6</li><li>• IPv6 applications<ul style="list-style-type: none"><li>- DHCPv6 Client</li><li>- Ping6</li><li>- Tracert6</li><li>- Telnet (v6)</li><li>- IPv6 SNMP</li><li>- IPv6 SSH</li><li>- IPv6 SSL</li><li>- Http/Https</li><li>- IPv6 TFTP</li></ul></li></ul> |
| Administración | <ul style="list-style-type: none"><li>• Web-based GUI</li><li>• Command Line Interface (CLI) through the console port, telnet</li><li>• SNMP v1/v2c/v3<ul style="list-style-type: none"><li>- Trap/Inform</li><li>- RMON (1,2,3,9 groups)</li></ul></li><li>• SDM Template</li><li>• DHCP/BOOTP Client</li><li>• 802.1ab LLDP/LLDP-MED</li></ul>                                                                                                                                                                |



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|      | <ul style="list-style-type: none"><li>• DHCP AutoInstall</li><li>• Dual Image, Dual Configuration</li><li>• CPU Monitoring</li><li>• Cable Diagnostics</li><li>• EEE</li><li>• Password Recovery</li><li>• SNTP</li><li>• System Log</li></ul>                                                                                                                                                                                                                           |
| MIBs | <ul style="list-style-type: none"><li>• MIB II (RFC1213)</li><li>• Interface MIB (RFC2233)</li><li>• Ethernet Interface MIB (RFC1643)</li><li>• Bridge MIB (RFC1493)</li><li>• P/Q-Bridge MIB (RFC2674)</li><li>• RMON MIB (RFC2819)</li><li>• RMON2 MIB (RFC2021)</li><li>• Radius Accounting Client MIB (RFC2620)</li><li>• Radius Authentication Client MIB (RFC2618)</li><li>• Remote Ping, Traceroute MIB (RFC2925)</li><li>• Support TP-Link private MIB</li></ul> |



## ADMINISTRACIÓN

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| Omada App               | Yes. Requiring the use of OC300, OC200, Omada Cloud-Based Controller, or Omada Software Controller.                                                                                                        |
| Centralized Management  | <ul style="list-style-type: none"><li>• Omada Cloud-Based Controller</li><li>• Omada Hardware Controller (OC300)</li><li>• Omada Hardware Controller (OC200)</li><li>• Omada Software Controller</li></ul> |
| Cloud Access            | Yes. Requiring the use of OC300, OC200, Omada Cloud-Based Controller, or Omada Software Controller.                                                                                                        |
| Zero-Touch Provisioning | Yes. Requiring the use of Omada Cloud-Based Controller.                                                                                                                                                    |
| Management Features     | <ul style="list-style-type: none"><li>• Web-based GUI</li><li>• Command Line Interface (CLI) through the console port, telnet</li><li>• SNMP v1/v2c/v3 - Trap/Inform</li></ul>                             |



## ADMINISTRACIÓN

|  |                                                                                                                                                                                                                                                                                                                                                                   |
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|  | <ul style="list-style-type: none"><li>- RMON (1,2,3,9 groups)</li><li>• SDM Template</li><li>• DHCP/BOOTP Client</li><li>• 802.1ab LLDP/LLDP-MED</li><li>• DHCP AutoInstall</li><li>• Dual Image, Dual Configuration</li><li>• CPU Monitoring</li><li>• Cable Diagnostics</li><li>• EEE</li><li>• Password Recovery</li><li>• SNTP</li><li>• System Log</li></ul> |
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## OTROS

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| Certificacion          | CE, FCC, RoHS                                                                                                                                                             |
| Contenidos del Paquete | <ul style="list-style-type: none"><li>• TL-SG3428X Switch</li><li>• Power Cord</li><li>• Quick Installation Guide</li><li>• Rackmount Kit</li><li>• Rubber Feet</li></ul> |
| Requisitos del Sistema | Microsoft® Windows® 98SE, NT, 2000, XP, Vista™ or Windows 7/8/10/11, MAC® OS, NetWare®, UNIX® or Linux.                                                                   |



## OTROS

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| Ambiente | <ul style="list-style-type: none"><li>• Operating Temperature: 0–45 °C (32–113 °F);</li><li>• Storage Temperature: -40–70 °C (-40–158 °F)</li><li>• Operating Humidity: 10–90% RH non-condensing</li><li>• Storage Humidity: 5–90% RH non-condensing</li></ul> |
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