

Item no.: 356446

TP-Link TL-SG3210XHP-M2 8x 2.5G PoE+ 2x10G SFP+ Multi-Gigabit

403,99 EUR

Item no.: 356446
shipping weight: 3.00 kg
Manufacturer: TP-LINK

Product Description

Unleash the full potential of WiFi 6 with multi-gigabit PoE+ ports. Equipped with 8x 2.5 Gbps PoE+ ports, ensures future-proof network expansions and installations, with enough bandwidth for WiFi 6 access points. This switch provides 30 W of PoE power to all 8 ports simultaneously via each port, with a total budget of 240 W, making the switch suitable for a variety of different deployment scenarios. Enterprise switch with 10G uplink. 2x 10 Gbps SFP+ slots enable full simultaneous uplink of all downlinks for non-blocking switch performance, ultra-low latency for reliable, lightning-fast provisioning of connections to servers and switches. Software Defined Networking (SDN) with cloud access. The Omada SDN integrates network devices such as access points, switches and gateways for 100% centralised cloud management. This allows highly scalable networks to be controlled from a single interface, seamlessly providing WLAN and LAN connections. Ideal for use in education, hospitality, offices and more. Advanced L3 features. A variety of L2+ and L3 features are supported to enable the creation of highly scalable and robust networks that provide reliable and efficient solutions for businesses, educational institutions and ISPs. Secure network creation. Security features include IP-MAC port VID binding, port security, storm control and DHCP snooping to defend against a range of network threats. An integrated list of common DoS attacks is available, making it easier than ever to prevent them. In addition, the Access Control List (ACL, L2 to L4) function restricts access to sensitive network resources by blocking packets based on source and destination MAC address, IP address, TCP/UDP ports or VLAN ID. User network access can be controlled via 802.1X authentication, which works with a RADIUS/Tacacs+ server to grant access only when valid user credentials are provided. Enterprise-level features. A full range of L2+ features are supported, including 802.1Q VLAN, Port Mirroring, STP/RSTP/MSTP, Link Aggregation Control Protocol and 802.3x Flow Control. Advanced IGMP Snooping ensures that the switch intelligently forwards multicast streams only to the appropriate subscribers and prevents unnecessary traffic, while IGMP Throttling & Filtering restricts each subscriber at the port level to prevent unauthorised multicast access. Static routing is a simple method of segmenting the network and routes traffic internally through the switch for improved efficiency. Advanced QoS. Voice and video traffic can be prioritised based on IP address, MAC address, TCP port number, UDP port number, etc. With QoS (Quality of Service), voice and video services remain smooth, even when bandwidth is scarce. Functions targeted at data centres and internet providers. Flow, QoS, L2TP PPPoE ID Insertion and IGMP authentication are integrated functions with which we respond to the requirements of internet providers. 802.3ah OAM and Device Link Detection Protocol (DLDP) offer simplified monitoring and troubleshooting of network interfaces. IPv6 support. IPv6 functions such as Dual IPv4/IPv6 Stack, MLD Snooping, IPv6 ACL, DHCPv6 Snooping, IPv6 Interface, Path Maximum Transmission Unit (PMTU) Discovery and IPv6 Neighbour Discovery guarantee that your network is ready for the next generation (NGN) without you having to replace your hardware.

Hardware functions- Interface: 8x 100/1000/2500 Mbit/s RJ45 ports, 2x 10G SFP+ slots, 1x RJ45 console port, 1x micro-USB console port- Number of fans: 2- Power supply: 100-240 V AC~50/60 Hz- PoE ports: Standard: 802.3at/af compliant; PoE+ ports: 8 ports; PoE power budget: 240 W- Dimensions (WxDxH): 440 x 180 x 44 mm- Mounting: rack-mounted- Maximum power consumption: 17.24 W (110 V/60 Hz, without PoE end devices), 291.49 W (110 V/60 Hz, with 240 W PoE supply)- Maximum heat dissipation: 58.82 BTU/h (110 V/60 Hz, without PoE end devices), 994.56 BTU/h (110 V/60 Hz, with 240 W PoE supply)- Performance- Switching capacity: 80 Gbit/s- Packet forwarding rate: 59.52 Mpps- MAC address table: 16 K- Packet buffer memory: 12 Mbit- Jumbo frames: 9 K- Software functions- Quality of Service: 8 priority queues; 802.1p CoS/DSCP priority; Queue scheduling (SP (Strict Priority), WRR (Weighted Round Robin), SP+WRR); Bandwidth Control (Port/Flow based Rating Limiting); Smoother Performance; Action for Flows (Mirror (to supported interface), Redirect (to supported interface), Rate Limit, QoS Remark)- Layer3 functions: 16 IPv4/IPv6 interfaces; Static Routing (48 static routes); Static ARP (128 static entries); Proxy ARP; Gratuitous ARP; DHCP Server; DHCP Relay (DHCP Interface Relay, DHCP VLAN Relay); DHCP L2 Relay- Layer2 and Layer2+ functions: Link aggregation (static link aggregation, 802.3ad LACP; up to 8 aggregation groups with 8 ports per group); Spanning Tree Protocol (802.1d STP, 802.1w RSTP, 802.1s MSTP, STP Security: TC Protect, BPDU Filter, Root Protect); Loopback Detection (Port based, VLAN based); Flow Control (802.3x Flow Control, HOL Blocking Prevention); Mirroring (Port Mirroring (CPU Mirroring, One-to-One, Many-to-One, Tx/Rx/Both)- Layer2-Multicast: IGMP Snooping (IGMP v1/v2/v3 Snooping, Fast Leave, IGMP Snooping Querier, IGMP Authentication); IGMP Authentication; MLD Snooping (MLD v1/v2 Snooping, Fast Leave, MLD Snooping Querier, Static Group Config, Limited IP Multicast); MVR; Multicast Filtering: 256 profiles and 16 entries per profile- Extended functions: Support of the Omada Hardware Controller (OC200/OC300), Software Controller, Cloud-Based Controller; Automatic Device Discovery; Batch Configuration; Batch Firmware Update; Intelligent Network Monitoring; Abnormal Event Messages; Unified, Centralised Configuration; Restart Schedule; ZTP (Zero-Touch Provisioning) with Cloud Controller- VLAN: VLAN Group (Max 4K VLAN Groups); 802.1Q Tagged VLAN; MAC VLAN: 7 Entries; Protocol VLAN: Protocol Template 16, Protocol VLAN 16; Private VLAN; GVRP; VLAN VPN (QinQ) (Port-Based QinQ, Selective QinQ); Voice VLAN- Access Control List: Time-based ACL; MAC ACL (Source MAC, Destination MAC, VLAN ID, User Priority, Ether Type); IP ACL (Source IP, Destination IP, Fragment, IP Protocol, TCP Flag, TCP/UDP Port, DSCP/IP TOS, User Priority); Combined ACL; Packet Content ACL; IPv6 ACL; Policy (Mirroring, Redirect, Rate Limit, QoS Remark); ACL apply to Port/VLAN- Security: IP-MAC port binding (512 entries, DHCP snooping, ARP inspection, IPv4 source guard: 100 entries); IPv6-MAC port binding (512 entries, DHCPv6 snooping, ND detection, IPv6 source guard: 100 entries); DoS Defend; Static/Dynamic Port Security (up to 64 MAC addresses per port); Broadcast/Multicast/Unicast Storm Control (kbps/ratio control mode); 802.1X (Port base authentication, Mac base authentication, VLAN Assignment, MAB, Guest VLAN, Radius Authentication and accountability support); AAA (including TACACS+); 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: IPv6 Dual IPv4/IPv6; Multicast Listener Discovery (MLD) Snooping; IPv6 ACL; IPv6 Interface; Static IPv6 Routing; IPv6 neighbour 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- Administration: Web-based GUI; Command Line Interface (CLI) through the console port, telnet; SNMP v1/v2c/v3 (Trap/Inform, RMON (1, 2, 3, 9 groups); SDM Template; DHCP/BOOTP Client; 802.1ab LLDP/LLDP-MED; DHCP AutoInstall; Dual Image, Dual Configuration; CPU Monitoring; Cable Diagnostics; EEE; Password Recovery; SNMP; System Log- 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); Radius Accounting Client MIB (RFC2620); Radius Authentication Client MIB (RFC2618); Remote Ping, Traceroute MIB (RFC2925); Support TP-Link private MIB Management- Omada App: Yes, requires the use of OC300, OC200, Omada Cloud-Based Controller or Omada Software Controller- Centralised management: Omada Cloud-Based Controller; Omada Hardware Controller (OC300); Omada Hardware Controller (OC200); Omada Software Controller- Cloud Access: Yes, requires the use of OC300, OC200, Omada Cloud-Based Controller or Omada Software Controller- Zero-Touch Deployment: Yes, requires the use of Omada Cloud-Based Controller- Management Features: Web-based GUI; Command Line Interface (CLI) via console port, Telnet; SNMP v1/v2c/v3 (Trap/Inform, RMON (1, 2, 3, 9 groups)); SDM template; DHCP/BOOTP client; 802.1ab LLDP/LLDP-MED; DHCP AutoInstall; dual image, dual configuration; CPU monitoring; cable diagnostics; EEE; password recovery; SNMP; system protocol Other- Certification: CE, FCC, RoHS- Package contents: TL-SG3210XHP-M2 switch, power cord, quick installation guide, rackmount kit, rubber feet- System requirements: Microsoft® Windows® 98SE, NT, 2000, XP, Vista™ or Windows 7/8/10/11, MAC® OS, NetWare®, UNIX® or Linux- Environment: operating temperature: 0-50°C (32-122°F); storage temperature: -40-70°C (-40-158°F); operating humidity: 10-90% RH (humidity), non-condensing; storage humidity: 5-90% RH (humidity), non-condensing

Specifications

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