TP-Link Omada Pro 24-Port PoE+ 2.5G L2+ Managed Switch with 4 SFP+ Slots

Model: S5500-24MPP4XF

Manufacturer: TP-LINK

EAN: 4895252505696

Product Code: 1143470

R80,168

What This Product Does

Build and expand your lightning-fast network with Omada Pro S5500-24MPP4XF—a full enterprise-level managed switch with 8× 2.5 Gbps PoE++, 16× 2.5 Gbps PoE+ ports, and 4× 10G SFP+ ports. Users can supply up to 500 W total power to connected devices and flexibly deploy equipment such as wireless access points or IP cameras without worrying about power outlets. PoE support together with high-performance static routing, enterprise-level QoS, advanced security features, a selection of Layer 2 management options, and integration into Omada Pro SDN (Software-Defined Networking) make S5500-24MPP4XF a great choice for enterprises, MDUs, hotels, and ISPs.

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IEEE 802.3bt/at/af-compliant Power over Ethernet

8× IEEE 802.3bt/at/af-compliant and 16× IEEE 802.3at/af-compliant PoE ports supply up to 500 W total power to 802.3bt, 802.3at, and 802.3af devices.* Set up wireless access points, surveillance cameras, IP phones, and other PoE devices quickly and easily without the hassle and cost of installing power cabling.

Enterprise Switch with 2.5G Ports and 10G Uplink

24× 2.5 Gbps PoE ports and 2× 10 Gbps SFP+ slots provide up to 200 Gbps switching capacity. It delivers non-blocking performance and minimal latency, ensuring rapid, dependable connections to servers and other switches.

Secure Networking

Security features include IP-MAC-Port Binding and VLAN 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 Lists (ACL, L2 to L4) feature restricts access to sensitive network resources by denying packets based on source and destination MAC address, IP address, TCP/UDP ports, or VLAN ID. Users' 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.

Advanced QoS

Leveraging IP, MAC, TCP, and UDP identifiers, our QoS feature ensures seamless voice and video transmission—even when bandwidth is in short supply.

Abundant L2 and L3 features

S5500-24MPP4XF supports a complete lineup of L2 and L3 features, including Proxy ARP, Static Routing, OAM, DDM, L2PT, DLDP, 802.1Q VLAN, Port Mirroring, STP/RSTP/MSTP, Link Aggregation Control Protocol, and 802.3x Flow Control. Advanced IGMP Snooping ensures the switch intelligently

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forwards multicast streams to only the appropriate subscribers, cutting out unnecessary traffic, while IGMP throttling & filtering restrict each subscriber on a port level to prevent unauthorized multicast access.

Static Routing, an L2+ feature, is a simple way of segmenting the network and internally routing traffic through the switch for improved efficiency. Ethernet Ring Protection Switching (ERPS) blocks traffic on a single ring link to prevent looping and effectively adds redundancy and up-time protection to any network.

ISP Features

DDM, ERPS, L2PT, QinQ, L2PT PPPoE ID Insertion, and IGMP authentication features are provided, developed with service providers in mind. 802.3ah OAM and Device Link Detection Protocol (DLDP) offer easy monitoring and troubleshooting of Ethernet links.

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 Neighbor Discovery guarantee your network is ready for the Next Generation Network (NGN) without upgrading your hardware.

Omada Pro Integration

Integration into the Omada Pro system brings centralized cloud management and a series of management features such as Zero-Touch Provisioning (ZTP) and Intelligent Anomaly Detection.† Omada Pro’s Software Defined Networking (SDN) platform integrates network devices, including access points, switches, and routers, providing 100% centralized cloud management. Omada Pro creates a highly scalable network—all controlled from a single interface.

Apart from the ability to be centrally managed via Omada Pro controllers, S5500-24MPP4XF simplifies management via an intuitive web-based Graphical User Interface (GUI) or an industry-standard Command Line Interface (CLI). For both management methods, traffic is protected through SSL or SSH encryption. SNMP (v1/v2c/v3) and RMON support enable the switch to be polled for valuable status information and to send traps for abnormal events.

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