



OS5212P+/240W

8-Port 2.5G High PoE Managed Switch with 4x10G SFP+ Uplink Ports

8x100/1000/2.5GBase-T PoE++ (802.3af/at/bt, 90W), 4x10G SFP+, 240W PoE Budget, 1xConsole RJ-45, 19" rack mounting



OS5212P+/240W is a Managed L3 Switch with 8x100/1000/2.5GBase-T PoE++ ports and 4x10G SFP+ uplink ports.

The ORIGO OS5212P+/240W switch is recommended for building and upgrading corporate and provider networks that require a modern multi-gigabit solution with 10G uplinks to increase bandwidth at access and aggregation levels, as well as for providing reliable remote power for IP cameras, wireless access points, IP phones, and other PoE-enabled devices.

Ports 1 – 8 support IEEE PoE (802.3af), PoE+ (802.3at) и PoE++ (802.3bt) standards, delivering up to 90W per port with a total PoE budget of 240W. Built-in ESD protection meets industry surge standards, guarding the switch and connected devices from damage and network instability caused by ESD and lightning-induced surges.

The OS5212P+/240W combines powerful L3 routing (OSPF, RIP) with advanced security, QoS, and flexible VLAN features. Designed for reliable performance, it supports link aggregation and redundancy protocols (STP/RSTP/MSTP, ERPS) to keep networks stable even in demanding environments.

The OS5212P+/240W is managed through Command Line Interface (CLI), SNMP and Web-based interface.

Key Features

- 8x100/1000/2.5GBase-T 802.3af/at/bt PoE++ ports
- 4x10G SFP+ uplinks
- Total PoE budget – 240W (90W per port)
- Surge Protection – up to 6 kV, ESD protection – up to 8 kV
- Dynamic routing: RIP, OSPF
- 802.1Q VLAN, Multicast VLAN, Selective Q-in-Q
- ERPS, STP/MSTP/RSTP, LACP
- Management via Web UI, CLI (Telnet, SSH, Console) and SNMP



Specifications

Hardware

CPU and Memory	<ul style="list-style-type: none">• CPU: RTL9313• RAM: 512 MB• Flash: 64 MB
Interfaces	<ul style="list-style-type: none">• 8x100/1000/2.5GBase-T (RJ-45) PoE ports• 4x10GBase-X SFP+ ports• 1xRJ-45 console port
Standards and Functions	<ul style="list-style-type: none">• IEEE 802.3 10Base-T• IEEE 802.3u 100Base-TX• IEEE 802.3ab 1000Base-T• IEEE 802.3bz 2.5GBase-T• IEEE 802.3z 1000Base-X• IEEE 802.3ae 10GBase-X• IEEE 802.3af PoE• IEEE 802.3at PoE+• IEEE 802.3bt PoE++• IEEE 802.3x Full Duplex Flow Control• IEEE 802.3az Energy-Efficient Ethernet
LEDs	<ul style="list-style-type: none">• Power<ul style="list-style-type: none">- On – power on state- Off – power off state• Ports 1 – 8<ul style="list-style-type: none">- Solid green – PoE device connected (PoE Mode) / terminal device connected at 1000/2500 Mbps (Link Mode)- Flashing green – data pass at 1000/2500 Mbps- Solid orange – terminal device connected at 10/100 Mbps- Flashing orange – data pass at 10/100 Mbps- Off – no connection• Ports 9 – 12<ul style="list-style-type: none">- Solid green – terminal device connected at 10 Gbps- Flashing green – data pass at 10 Gbps- Solid orange – terminal device connected at 1000 Mbps- Flashing orange – data pass at 1000 Mbps- Off – no connection• SYS<ul style="list-style-type: none">- Flicker – the system is starting or has started- Off – the system is not started



	<ul style="list-style-type: none">• PoE<ul style="list-style-type: none">- Always bright – LEDs for ports 1 – 8 are in PoE Mode- Off – LEDs for ports 1 – 8 are in Link Mode (LNK/ACT)
Buttons	<ul style="list-style-type: none">• PoE LED Mode for switching port indication between PoE and Link/Act modes• Reset
Power	<ul style="list-style-type: none">• Power connector (AC)
Ventilation	<ul style="list-style-type: none">• 1 fan
Casing	<ul style="list-style-type: none">• Metal
Mounting	<ul style="list-style-type: none">• Desktop• 19" rack

Capacity

Switching Capacity	<ul style="list-style-type: none">• 120 Gbps
Packet Forwarding Rate	<ul style="list-style-type: none">• 89.28 Mpps
Transfer Mode	<ul style="list-style-type: none">• Store-and-forward
MAC Address Table	<ul style="list-style-type: none">• 32K entries
Routing Table Size	<ul style="list-style-type: none">• 6K(IPv4)/2K(IPv6)
L3 Forwarding Table	<ul style="list-style-type: none">• 6K(IPv4)/2K(IPv6)
Packet Buffer	<ul style="list-style-type: none">• 2 MB
Jumbo Frame	<ul style="list-style-type: none">• 12 KB

PoE

PoE Standard	<ul style="list-style-type: none">• IEEE 802.3af• IEEE 802.3at• IEEE 802.3bt
PoE Ports	<ul style="list-style-type: none">• 1 – 8
Max. Power Consumption per Port	<ul style="list-style-type: none">• 90W
PoE Power Budget	<ul style="list-style-type: none">• 240W
PoE Mode	<ul style="list-style-type: none">• Type A• Type B

Software

L2 Features	<ul style="list-style-type: none">• Flow Control
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	<ul style="list-style-type: none"> • Link Aggregation <ul style="list-style-type: none"> - Static - 802.3ad - Up to 64 groups per device / up to 8 ports per group • Loopback Detection • ERPS • Spanning Tree Protocol <ul style="list-style-type: none"> - 802.1D STP - 802.1w RSTP - 802.1s MSTP • LLDP • Port mirroring <ul style="list-style-type: none"> - One-to-One - Many-to-One
L2 Multicast	<ul style="list-style-type: none"> • IGMP Snooping <ul style="list-style-type: none"> - IGMP v1/v2/v3 - Supports up to 1K groups - IGMP Snooping Fast Leave - IGMP Filtering • MLD Snooping <ul style="list-style-type: none"> - MLD v1/v2 - Supports up to 1K groups
VLAN	<ul style="list-style-type: none"> • 802.1Q, 4094 VLAN • MAC-based VLAN • Protocol-based VLAN (802.1v) • Subnet-based VLAN • Double VLAN (Q-in-Q) <ul style="list-style-type: none"> - Selective Q-in-Q • VLAN Translation • GVRP <ul style="list-style-type: none"> - Supports up to 4K groups
L3 Features	<ul style="list-style-type: none"> • Maximum number of IP interfaces: 32 • 8K ARP entries • Static routing for IPv4/IPv6 <ul style="list-style-type: none"> - 6K IPv4 routes - 2K IPv6 routes • RIPv1/v2/ng

	<ul style="list-style-type: none"> • OSPFv2 • ARP • ARP Proxy • VRRP
QoS	<ul style="list-style-type: none"> • 802.1p • DSCP • Queue handling <ul style="list-style-type: none"> - Strict Priority (SP) - Weighted Round Robin (WRR) - Weighted Fair Queuing (WFQ) - Weighted Deficit Round Robin (WDRR) - SP+WFQ - SP+WRR • Port-based bandwidth control • Supports up to 8 egress queues per port
Access Control List (ACL)	<ul style="list-style-type: none"> • Up to 2K ACL entries • ACL based on: <ul style="list-style-type: none"> - MAC address - IP address - VLAN ID - 802.1p priority - L3 protocol - DSCP • Time-based ACL
Security	<ul style="list-style-type: none"> • IP Source Guard • Port Security <ul style="list-style-type: none"> - Supports up to 16K MAC addresses per port • Port Isolation • Storm Control • ARP Spoofing Protection <ul style="list-style-type: none"> - Max. 1K entries • DoS Attack Prevention • DHCP Snooping
AAA	<ul style="list-style-type: none"> • 802.1X Authentication: <ul style="list-style-type: none"> - Port-Based - MAC-Based • RADIUS/TACACS+ Authentication
OAM	<ul style="list-style-type: none"> • Cable Diagnostics



	<ul style="list-style-type: none">• DDM (Digital Diagnostics Monitoring)
Management	<ul style="list-style-type: none">• Web-based UI• CLI• Telnet• SSH• System Log• SNMP• RMON• SNTTP• Ping/Traceroute• DHCP Server• DHCP Client• DHCP Relay• DHCP Option 82, 60

Physical Parameters

Dimensions (L x W x H)	<ul style="list-style-type: none">• 280 x 230 x 44 mm
Weight	<ul style="list-style-type: none">• 2.26 kg
Package Dimensions	<ul style="list-style-type: none">• 39.5 x 28.8 x 7.5 cm
Gross Weight	<ul style="list-style-type: none">• 3.04 kg

Operating Conditions

Power Input	<ul style="list-style-type: none">• 100-240V AC, 50/60 Hz• Power cord length: 1.7 m
Surge Protection	<ul style="list-style-type: none">• ± 6 kV (RJ-45 common mode)• ± 4 kV (power common mode)• ± 2 kV (power differential mode)
Electrostatic Discharge (ESD) Protection	<ul style="list-style-type: none">• Contact discharge: ± 6 kV• Air discharge: ± 8 kV
Temperature	<ul style="list-style-type: none">• Operating: 0 to 45 °C• Storage: -40 to 70 °C
Humidity	<ul style="list-style-type: none">• Operating: 10% to 90% (non-condensing)• Storage: 5% to 90% (non-condensing)



Package Contents

Package Contents	<ul style="list-style-type: none">• OS5212P+/240W Switch• Power Cord (1.7 m)• Rack Mount Kit• Quick Installation Guide
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Order Info

OS5212P+/240W	Managed L3 PoE Switch, 8x2.5GBase-T, 4x10GBase-X SFP+ <i>240W PoE Budget</i>
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