



OS3228P

24-Port Gigabit Managed L3 PoE Switch with 4x10G SFP+ Ports

24x1000Base-T PoE+, 4x10G SFP+, 1xConsole RJ-45, 370W/250W PoE Budget, PoE up to 250 m, 19" rack mounting



The ORIGO OS3228P is a managed L3 switch with 24xGigabit PoE+ ports and 4x10G SFP+ uplinks, available with 370W or 250W PoE budget.

The ORIGO OS3228P switch is designed for building and upgrading SMB and enterprise networks, delivering a modern gigabit solution with high PoE port density and 10G uplinks. It increases aggregation bandwidth while providing reliable remote power for IP cameras, wireless access points, IP phones, and other PoE-enabled devices.

All RJ-45 ports from 1 – 24 support IEEE 802.3af/at PoE standards, providing up to 30W for each port. 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 switch is suitable for use in video surveillance systems (CCTV). The Extend PoE mode allows to overcome the standard Ethernet limit of 100 m and connect IP cameras at a distance of up to 250 m at speeds up to 10 Mbit/s, simplifying installation and reducing costs when building CCTV networks. Support for PD Alive and PoE Scheduling ensures automatic restart of unresponsive devices and optimization of power consumption.

The OS3228P combines powerful L3 routing (BGP, OSPF, RIP) with advanced security, QoS, and flexible VLAN features. Designed for reliable performance, it supports link aggregation, Loopback Detection, and redundancy protocols (STP/RSTP/MSTP, ERPS) to keep networks stable even in demanding environments. Built-in OAM tools provide comprehensive monitoring and troubleshooting, making network management simple and efficient.

Key Features

- 24 x 10/100/1000Base-T 802.3af/at PoE
- 4 x 10G SFP+ uplinks
- Total PoE budget option – 370W or 250W
- Adapted for CCTV: PoE up to 250m, PD Alive and PoE Scheduling
- Dynamic routing: RIP, OSPF, BGP
- Static IPv4/IPv6 routing:
- 802.1X authentication, ACL L2-L4, Port Security
- Comprehensive QoS for traffic prioritization
- IGMP/MLD Snooping for multicast traffic management
- ERPS, STP/RSTP/MSTP, LoopBack Detection for high availability
- Management via Web UI, CLI (Telnet, SSH, Console), and SNMP



Specifications

Hardware

CPU and memory	<ul style="list-style-type: none">• CPU: RTL9301• RAM: 512 MB• Flash: 32 MB
Interfaces	<ul style="list-style-type: none">• 24x10/100/1000Base-T (RJ-45) PoE• 4x10GBase-X SFP+• 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 802.3z 1000Base-X• IEEE 802.3ae 10GBase-X• IEEE 802.3af PoE• IEEE 802.3at PoE• IEEE 802.3x (Full Duplex Flow Control)• IEEE 802.3az Energy-Efficient Ethernet• Automatic MDI/MDIX Detection on All Copper Ports
LEDs	<ul style="list-style-type: none">• PWR<ul style="list-style-type: none">- ON – power on state- OFF – power off state• Link/Act (Ports 1 – 28)<ul style="list-style-type: none">- Always bright – terminal device connected- Flicker – data pass- OFF – no connection• SYS<ul style="list-style-type: none">- Flicker – the system is working properly- OFF – the system is being started or is abnormal• PoE (Ports 1 – 24)<ul style="list-style-type: none">- On: PoE device is connected- Blinking: Power out of range- Off: No PoE device connected
Button	<ul style="list-style-type: none">• Reset
Power	<ul style="list-style-type: none">• Power connector (AC)
Ventilation	<ul style="list-style-type: none">• 2 fans
Housing	<ul style="list-style-type: none">• Metal
Mounting	<ul style="list-style-type: none">• Desktop



	<ul style="list-style-type: none">• 19" rackmount
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Performance

Switching Capacity	<ul style="list-style-type: none">• 128 Gbps
Packet Forwarding Rate	<ul style="list-style-type: none">• 95.23 Mpps
Packet Buffer	<ul style="list-style-type: none">• 1.5 MB
Transfer Mode	<ul style="list-style-type: none">• Store-and-forward
MAC Address Table	<ul style="list-style-type: none">• 16K entries
Jumbo Frame	<ul style="list-style-type: none">• 9 216 bytes

PoE

PoE Standard	<ul style="list-style-type: none">• IEEE 802.3af• IEEE 802.3at
PoE Ports	<ul style="list-style-type: none">• Ports 1-24
Max. Power per Port:	<ul style="list-style-type: none">• 30W
PoE Power Budget	<ul style="list-style-type: none">• 370W (OS3228P/370W)• 250W (OS3228P/250W)
PoE Mode	<ul style="list-style-type: none">• Type A
PoE Distance	<ul style="list-style-type: none">• 100 m<ul style="list-style-type: none">- Data rate – up to 1000 Mbps• 250 m¹<ul style="list-style-type: none">- Data rate – up to 10 Mbps
Management and Monitoring	<ul style="list-style-type: none">• PoE Scheduling: Allows scheduled enabling/disabling of PoE on specific ports• PD Alive: Continuously monitors PoE-powered devices (PDs) and automatically restarts unresponsive devices

Software Features

L2 Features	<ul style="list-style-type: none">• Flow Control• Link Aggregation<ul style="list-style-type: none">- Static- 802.3ad- Up to 64 groups per device / up to 8 ports per group• Load Balance<ul style="list-style-type: none">- src-mac- dst-mac- src-ip- dst-ip
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¹Data and power transmission over distances of up to 250 m is possible with a switch port speed limited to 10 Mbps. The connected device should also support speeds of up to 10 Mbps.

	<ul style="list-style-type: none">• Loopback Detection• ERPS• MRPP• ULPP• ULSM• Spanning Tree Protocol<ul style="list-style-type: none">- 802.1D STP- 802.1w RSTP- 802.1s MSTP (64 instances)- Root Guard (Restriction)- BPDU Guard (Restriction)• LLDP• LLDP-MED• Port mirroring<ul style="list-style-type: none">- One-to-One- Many-to-One- Flow-based- CPU-based- Ingress, egress, both- RSPAN
VLAN	<ul style="list-style-type: none">• 802.1Q, 4094 VLAN• Port-based VLAN• MAC-based VLAN• Protocol-based VLAN (802.1v)• Subnet-based VLAN• Private VLAN• VLAN Filtering• Voice VLAN• GVRP• GMRP• Double VLAN (Q-in-Q)<ul style="list-style-type: none">- Selective Q-in-Q- Port-based Q-in-Q• VLAN Translation• Multicast VLAN

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 Proxy - IGMP Authentication (RADIUS) • MLD Snooping <ul style="list-style-type: none"> - MLD v1/v2 - Supports up to 1K groups • Multicast Source/Destination (DCSCM)
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 • Gratuitous ARP • RIPv1/v2 • OSPFv2 • BGPv4
QoS	<ul style="list-style-type: none"> • 802.1p • CoS based on: <ul style="list-style-type: none"> - DSCP - VLAN ID - IP Precedence - IP ACL/ MAC ACL/ IPv6 ACL - IPv6 Flow Labels • Queue handling <ul style="list-style-type: none"> - Strict Priority (SP) - Weighted Round Robin (WRR) - Weighted Deficit Round Robin (WDRR) • Port-based bandwidth control • Supports up to 8 egress queues per port
Security	<ul style="list-style-type: none"> • Port Security • Port Isolation • Storm Control • Dynamic ARP Inspection • ARP Spoofing Protection • ARP Scanning Prevention

	<ul style="list-style-type: none"> • ARP Guard • DoS Attack Prevention • DHCP Snooping • DHCPv6 Snooping • IPv6 SAVI • Security RA • CPU Protection
AAA	<ul style="list-style-type: none"> • 802.1X Authentication: <ul style="list-style-type: none"> - Port-based - MAC-based • Guest VLAN • IPv6 RADIUS Server • RADIUS/TACACS+ Authentication
Access Control Lists (ACL)	<ul style="list-style-type: none"> • Up to 2K ACL entries • ACL based on: <ul style="list-style-type: none"> - VLAN - MAC address - IPv4 address - DSCP - ToS - TCP/UDP port number - User-defined ACL • Time-based ACLs
OAM	<ul style="list-style-type: none"> • Cable diagnostics • ULDP (Unidirectional Link Detection Protocol) • 802.3ah Ethernet Link OAM • 802.1ag Connectivity Fault Management (CFM) • DDM (Digital Diagnostics Monitoring) • Watchdog
Management	<ul style="list-style-type: none"> • Web-based UI • CLI • Telnet • SSH • FTP • TFTP • System Log • SNMP v1/v2c/v3 • SNMP Traps

	<ul style="list-style-type: none"> • SNTP • NTP • Firmware Backup/Upgrade • Ping/Traceroute (IPv4/IPv6) • DHCP Server • DHCPv6 Server • BootP/DHCP Client • DHCP Relay • DHCPv6 Relay • DHCP Option 82, 43, 60, 61, 67 • IPv4/IPv6 DNS Client
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Physical Parameters

Dimensions (W × D × H)	• 440 x 207 x 44.5 mm
Weight	• 3.48 kg
Package Dimensions	• 50.4 x 34.8 x 9 cm
Gross Weight	• 4.12 kg

Operating Conditions

Power Input	• 100-240V AC, 50/60 Hz
Max Power Consumption	<ul style="list-style-type: none"> • OS3228P/370W: 469.3W • OS3228P/250W: 332.5W
MTBF (hours)	• > 100 000
Surge Protection	<ul style="list-style-type: none"> • ±4 kV (common mode) • ±2 kV (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 40 °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

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Order Info

OS3228P/370W	Managed L3 PoE Switch, 24x1000Base-T, 4x10GBase-X SFP+, PoE up to 250m <i>370W PoE Budget</i>
OS3228P/250W	Managed L3 PoE Switch, 24x1000Base-T, 4x10GBase-X SFP+, PoE up to 250m <i>250W PoE Budget</i>
