



OS3228F

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

24x1000Base-X SFP, 4x10G SFP+, 1xConsole RJ-45, 19" rack mounting



The ORIGO OS3228F is an all-fiber managed L3 switch with 24xSFP ports and 4x10G SFP+ uplinks.

The OS3228F is designed for deployment as an access or aggregation switch in SMB, enterprise, and ISP networks, delivering high-performance connectivity and scalability for fiber-based infrastructures.

The switch comes with dual 220V AC power supply units in a redundant configuration. If one fails, the other seamlessly maintains power, ensuring continuous system operation.

The OS3228F combines powerful L3 routing capabilities (RIP, OSPF, BGP) with advanced security, Quality of Service (QoS), and flexible VLAN features, including Port Security, ACL, 802.1X authentication, Guest VLAN, 802.1Q VLAN, and Q-in-Q double tagging. For multicast applications, the switch supports IGMP/MLD Snooping, Fast Leave, and Multicast VLAN.

To ensure reliable network operation, the switch supports link aggregation (LACP), LoopBack Detection, redundancy protocols (STP/RSTP/MSTP), and ERPS technology for fast recovery in case of link failure within a ring topology.

Key Features

- 24 x Gigabit SFP ports
- 4 x 10G SFP+ ports
- 2 built-in AC power supplies for redundancy
- Dynamic routing: RIP, OSPF, BGP
- Static routing support
- 802.1Q VLAN, Selective Q-in-Q, Multicast VLAN
- 802.1X Authentication, ACL, 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">• 24x1000 Base-X SFP• 4x10G Base-X SFP+• RJ-45 console port
Standards and Functions	<ul style="list-style-type: none">• IEEE 802.3z 1000Base-X• IEEE 802.3ae 10GBase-X
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
Power	<ul style="list-style-type: none">• 2×Power connectors (AC)
Ventilation	<ul style="list-style-type: none">• 2 fans
Button	<ul style="list-style-type: none">• Reset
Housing	<ul style="list-style-type: none">• Metal
Mounting	<ul style="list-style-type: none">• Desktop• 19" rackmount

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">• 12 KB

Software

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• 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

	<ul style="list-style-type: none">• 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
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• Supports up to 8 egress queues per port• 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)• 8 Egress Queues

Security	<ul style="list-style-type: none"> • Port Security • Port Isolation • Storm Control • Dynamic ARP Inspection • ARP Spoofing Protection • ARP Scanning Prevention • ARP Guard • DoS Attack Prevention • DHCP Snooping • DHCPv6 Snooping • IPv6 SAVI • Security RA • CPU Protection
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 • Time-based ACL
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
OAM	<ul style="list-style-type: none"> • ULDP (Unidirectional Link Detection Protocol) • 802.3ah Ethernet Link OAM • 802.1ag Connectivity Fault Management (CFM) • DDM (Digital Diagnostics Monitoring)
Management	<ul style="list-style-type: none"> • Web-based UI • CLI • Telnet • SSH • FTP • TFTP • System Log

	<ul style="list-style-type: none"> • SNMP v1/v2c/v3 • SNMP Traps • SNTF • 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
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Physical Parameters

Dimensions (W × D× H)	• 440 x 260 x 44 mm
Weight	• 3.7 kg
Package Dimensions	• 50.8 x 34.8 x 9 cm
Gross Weight	• 4.30 kg

Operating Conditions

Power Input	• 100-240V AC, 50/60 Hz
Max Power Consumption	• 36.2W
MTBF (hours)	• > 100 000
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

Package Contents	<ul style="list-style-type: none"> • OS3228F Switch • 2xPower Cords • RJ-45 Console Cable • Rack-Mount Kit • Quick Installation Guide
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Order Info

OS3228F	Managed L3 Switch, 24×1000Base-X SFP, 4×10GBase-X SFP+
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