



OS6208

8-port 10GBase-T L2 Managed Switch

8x10GBase-T (RJ-45), 1xConsole RJ-45, 19" rack mounting



The ORIGO OS6208 is a high-performance L2 managed switch with 8 x 1000/2.5G/5G/10GBase-T ports.

The ORIGO OS6208 is recommended for building of the networks of communications providers and small and medium enterprises that need a modern 10-Gigabit solution at level of aggregation with functions that provide security, access control, fault-tolerance and quality of service.

The OS6208 supports a static routing, Port Security, 802.1X authentication, ACL, traffic segmentation via 802.1Q VLAN, Voice VLAN and Multicast VLAN. IGMP/MLD Snooping function allows to operate with multicasting applications effectively, and QoS is used to provide a priority transmission of multimedia traffic.

To increase performance and resiliency, the OS6208 supports Link Aggregation Control Protocol (LACP), the redundant connections by means of STP/RSTP/MSTP, and ERPS, providing fast network recovery if one of the ring links fails.

The OS6208 is managed through Command Line Interface (CLI), SNMP and Web-based interface.

Key Features

- 8 1000/2.5G/5G/10GBase-T ports
- IPv4/IPv6 static routing
- 802.1Q VLAN, Voice VLAN, Multicast VLAN, GVRP
- 802.1X authentication, ACL, Port Security
- ERPS, STP/MSTP/RSTP, LACP for enhanced network reliability
- Advanced QoS features for traffic prioritization
- Management via Telnet, SSH, Console, SNMP



Product Specifications

Hardware Specifications

CPU and Memory	• CPU: RTL9300 • RAM: 512 MB • Flash: 16 MB
Interfaces	• 8 x 100/1000/2.5G/5G/10GBase-T • 1 Console RJ-45 port
Standards and Functions	• IEEE 802.3 10Base-T • IEEE 802.3u 100Base-TX • IEEE 802.3ab 1000Base-T • IEEE 802.3bz 2.5GBase-T • IEEE 802.3bz 5GBase-T • IEEE 802.3an 10GBase-T • IEEE 802.3az Energy-Efficient Ethernet (EEE) • IEEE 802.3x Flow Control
LEDs	• PWR • Link/Act (Ports 1 – 8) • SYS
Buttons	• Reset
Power	• Power connector (AC)
Ventilation	• Fanless
Case	• Metal
Mounting	• Desktop • 19" rackmount

Performance

Switching Capacity	• 160 Gbps
Transfer Mode	• Store-and-forward
MAC Address Table	• 16K entries
Routing Table Size	• 32(IPv4)/(IPv6)
L3 Forwarding Table	• 32(IPv4)/(IPv6)
Packet Forwarding Rate	• 119.04 Mpps

Packet Buffer	• 1.5 MB
Jumbo Frame	• 12 KB

Software

L2 Features	• 802.3x Flow Control • Port Mirroring - Many-to-One • Link Aggregation - Static - 802.3ad - Up to 8 groups per device / up to 8 ports per group • Spanning Tree Protocol - 802.1D STP - 802.1w RSTP - 802.1s MSTP (16 instances) - BPDU Filtering - BPDU Guard (Restriction) • ERPS • LLDP • LLDP-MED
VLAN	• 802.1Q, 4094 VLAN • Port-based VLAN • MAC-based VLAN • Protocol-based VLAN (802.1v) • Management VLAN • Voice VLAN • Surveillance VLAN • GVRP - Supports up to 4K groups • Multicast VLAN
L2 Multicast	• IGMP Snooping - IGMP v1/v2/v3 - IGMP v2/v3 Querier - Supports up to 256 groups • MLD Snooping - MLD v1/v2 - Supports up to 256 groups

	• MVR - IPv4
L3 Features	• Maximum number of IP interfaces: 4K • 512 ARP entries • Static routing for IPv4/IPv6 - 32 IPv4 routes - no IPv6 support • IPv6 Neighbor Discovery (ND) • ARP entries
QoS	• 802.1p • 8 queues per port • CoS based on: - switch port - 802.1p priority - IP TOS Precedence - IP DSCP • Queue Handling - Weighted Round Robin (WRR) - Weighted Fair Queuing (WFQ) - Strict Priority (SP) - WRR+SP или WFQ+SP • Bandwidth control - Port-based (Ingress/Egress)
Security	• Port Security - Up to 256 MAC address per port • Port Isolation • IP Source Guard • IP-MAC-Port Binding (IMPB) • Broadcast / multicast / unicast storm protection • Dynamic ARP Inspection • IPv6 Duplicate Address Detection (DAD) • SSL - SSLv2/SSLv3 - TLSv1 • ARP Spoofing Prevention - Max. 512 entries • DoS Attack Prevention

	• DHCP Snooping • CPU Protection • Blackhole MAC address entries
AAA	• 802.1X Authentication: - Port-based - MAC-based - RADIUS and local server
	• Web Access Control (WAC) - Port-based Access Control - Host-based Access Control - Dynamic VLAN Assignment • Guest VLAN • RADIUS and TACACS+ Authentication • MAC-based Access Control (MAC) - Port-based Access Control - Host-based Access Control - Dynamic VLAN Assignment
Access Control List (ACL)	• Up to 512 ACL entries • L2/L3/L4 ACL • ACL based on: - MAC Address - IPv4 Address - IPv6 Address • Up to 1024 ACL entries • Management ACL
OAM	• Cable diagnostics • ULDP (Unidirectional Link Detection Protocol)
Management	• Web-based GUI - HTTPS • CLI • Telnet • RMON: 1, 2, 3, 9 groups • SNMP v1/v2c/v3 • ICMPv6 • SSH v1/v2 • TFTP • System Log

	• SNTP • Multi-level security system (manager/operator) • Password Recovery • Backup/Firmware Upgrade • Ping • Traceroute • Port Description • Configuration Backup/Upload Configuration • Multiple Configurations • Download/Upload - TFTP (RFC783) - HTTP - UART • CPU Monitoring • LLDP, LLDP-MED • DHCP Client • DHCPv6 • DHCP Option 82 • DNS Client
MIB Standards	• RFC1213 MIBII • RFC2819 RMON: 1, 2, 3, 9 groups • RFC1215 Generic Traps • RFC1493 Bridge MIB • RFC2674 Bridge MIB Extensions • RFC 2737 Entity MIB • RFC3635 Ethernet-Like MIB • RFC2863 Interface Group • SNMP-Community-MIB • SNMPv3-MIB

Physical Parameters

Dimensions (L x W x H)	• 271 x 182 x 45 mm
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Operating Conditions

Power	• 100-240V AC, 50/60 Hz
Temperature	• Operating: 0 to 45 °C • Storage: -40 to 70 °C



Humidity	• Operating: 10% to 90% non-condensing • Storage: 5% to 95% non-condensing
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Package Contents

Package Contents	• OS6208 Switch • Power Cord • Rack-Mount Kit • Quick Installation Guide
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Ordering Information

OS6208/A1A	L2 Managed Switch, 8x10GBase-T
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