



# 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	<ul style="list-style-type: none"><li>• CPU: RTL9300</li><li>• RAM: 512 MB</li><li>• Flash: 16 MB</li></ul>
Interfaces	<ul style="list-style-type: none"><li>• 8 x 100/1000/2.5G/5G/10GBase-T</li><li>• 1 Console RJ-45 port</li></ul>
Standards and Functions	<ul style="list-style-type: none"><li>• IEEE 802.3 10Base-T</li><li>• IEEE 802.3u 100Base-TX</li><li>• IEEE 802.3ab 1000Base-T</li><li>• IEEE 802.3bz 2.5GBase-T</li><li>• IEEE 802.3bz 5GBase-T</li><li>• IEEE 802.3az Energy-Efficient Ethernet (EEE)</li><li>• IEEE 802.3x Flow Control</li></ul>
LEDs	<ul style="list-style-type: none"><li>• PWR</li><li>• Link/Act (Ports 1 – 8)</li><li>• SYS</li></ul>
Buttons	<ul style="list-style-type: none"><li>• Reset</li></ul>
Power	<ul style="list-style-type: none"><li>• Power connector (AC)</li></ul>
Ventilation	<ul style="list-style-type: none"><li>• Fanless</li></ul>
Case	<ul style="list-style-type: none"><li>• Metal</li></ul>
Mounting	<ul style="list-style-type: none"><li>• Desktop</li><li>• 19" rackmount</li></ul>

### Performance

Switching Capacity	<ul style="list-style-type: none"><li>• 160 Gbps</li></ul>
Transfer Mode	<ul style="list-style-type: none"><li>• Store-and-forward</li></ul>
MAC Address Table	<ul style="list-style-type: none"><li>• 16K entries</li></ul>
Routing Table Size	<ul style="list-style-type: none"><li>• 32(IPv4)/(IPv6)</li></ul>
L3 Forwarding Table	<ul style="list-style-type: none"><li>• 32(IPv4)/(IPv6)</li></ul>
Packet Forwarding Rate	<ul style="list-style-type: none"><li>• 119.04 Mpps</li></ul>
Packet Buffer	<ul style="list-style-type: none"><li>• 1.5 MB</li></ul>

Jumbo Frame	• 12 KB
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## Software

L2 Features	<ul style="list-style-type: none"> <li>• 802.3x Flow Control</li> <li>• Port Mirroring             <ul style="list-style-type: none"> <li>- Many-to-One</li> </ul> </li> <li>• Link Aggregation             <ul style="list-style-type: none"> <li>- Static</li> <li>- 802.3ad</li> <li>- Up to 8 groups per device / up to 8 ports per group</li> </ul> </li> <li>• Spanning Tree Protocol             <ul style="list-style-type: none"> <li>- 802.1D STP</li> <li>- 802.1w RSTP</li> <li>- 802.1s MSTP (16 instances)</li> <li>- BPDU Filtering</li> <li>- BPDU Guard (Restriction)</li> </ul> </li> <li>• ERPS</li> <li>• LLDP</li> <li>• LLDP-MED</li> </ul>
VLAN	<ul style="list-style-type: none"> <li>• 802.1Q, 4094 VLAN</li> <li>• Port-based VLAN</li> <li>• MAC-based VLAN</li> <li>• Protocol-based VLAN (802.1v)</li> <li>• Management VLAN</li> <li>• Voice VLAN</li> <li>• Surveillance VLAN</li> <li>• GVRP             <ul style="list-style-type: none"> <li>- Supports up to 4K groups</li> </ul> </li> <li>• Multicast VLAN</li> </ul>
L2 Multicast	<ul style="list-style-type: none"> <li>• IGMP Snooping             <ul style="list-style-type: none"> <li>- IGMP v1/v2/v3</li> <li>- IGMP v2/v3 Querier</li> <li>- Supports up to 256 groups</li> </ul> </li> <li>• MLD Snooping             <ul style="list-style-type: none"> <li>- MLD v1/v2</li> <li>- Supports up to 256 groups</li> </ul> </li> <li>• MVR             <ul style="list-style-type: none"> <li>- IPv4</li> </ul> </li> </ul>

L3 Features	<ul style="list-style-type: none"><li>• Maximum number of IP interfaces: 4K</li><li>• 512 ARP entries</li><li>• Static routing for IPv4/IPv6<ul style="list-style-type: none"><li>- 32 IPv4 routes</li><li>- no IPv6 support</li></ul></li><li>• IPv6 Neighbor Discovery (ND)</li><li>• ARP entries</li></ul>
QoS	<ul style="list-style-type: none"><li>• 802.1p</li><li>• 8 queues per port</li><li>• CoS based on:<ul style="list-style-type: none"><li>- switch port</li><li>- 802.1p priority</li><li>- IP TOS Precedence</li><li>- IP DSCP</li></ul></li><li>• Queue Handling<ul style="list-style-type: none"><li>- Weighted Round Robin (WRR)</li><li>- Weighted Fair Queuing (WFQ)</li><li>- Strict Priority (SP)</li><li>- WRR+SP или WFQ+SP</li></ul></li><li>• Bandwidth control<ul style="list-style-type: none"><li>- Port-based (Ingress/Egress)</li></ul></li></ul>
Security	<ul style="list-style-type: none"><li>• Port Security<ul style="list-style-type: none"><li>- Up to 256 MAC address per port</li></ul></li><li>• Port Isolation</li><li>• IP Source Guard</li><li>• IP-MAC-Port Binding (IMPB)</li><li>• Broadcast / multicast / unicast storm protection</li><li>• Dynamic ARP Inspection</li><li>• IPv6 Duplicate Address Detection (DAD)</li><li>• SSL<ul style="list-style-type: none"><li>- SSLv2/SSLv3</li><li>- TLSv1</li></ul></li><li>• ARP Spoofing Prevention<ul style="list-style-type: none"><li>- Max. 512 entries</li></ul></li><li>• DoS Attack Prevention</li><li>• DHCP Snooping</li><li>• CPU Protection</li><li>• Blackhole MAC address entries</li></ul>

AAA	<ul style="list-style-type: none"> <li>• 802.1X Authentication:             <ul style="list-style-type: none"> <li>- Port-based</li> <li>- MAC-based</li> <li>- RADIUS and local server</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>• Web Access Control (WAC)             <ul style="list-style-type: none"> <li>- Port-based Access Control</li> <li>- Host-based Access Control</li> <li>- Dynamic VLAN Assignment</li> </ul> </li> <li>• Guest VLAN</li> <li>• RADIUS and TACACS+ Authentication</li> <li>• MAC-based Access Control (MAC)             <ul style="list-style-type: none"> <li>- Port-based Access Control</li> <li>- Host-based Access Control</li> <li>- Dynamic VLAN Assignment</li> </ul> </li> </ul>
Access Control List (ACL)	<ul style="list-style-type: none"> <li>• Up to 512 ACL entries</li> <li>• L2/L3/L4 ACL</li> <li>• ACL based on:             <ul style="list-style-type: none"> <li>- MAC Address</li> <li>- IPv4 Address</li> <li>- IPv6 Address</li> </ul> </li> <li>• Up to 1024 ACL entries</li> <li>• Management ACL</li> </ul>
OAM	<ul style="list-style-type: none"> <li>• Cable diagnostics</li> <li>• ULDP (Unidirectional Link Detection Protocol)</li> </ul>
Management	<ul style="list-style-type: none"> <li>• Web-based GUI             <ul style="list-style-type: none"> <li>- HTTPS</li> </ul> </li> <li>• CLI</li> <li>• Telnet</li> <li>• RMON: 1, 2, 3, 9 groups</li> <li>• SNMP v1/v2c/v3</li> <li>• ICMPv6</li> <li>• SSH v1/v2</li> <li>• TFTP</li> <li>• System Log</li> <li>• SNTP</li> <li>• Multi-level security system (manager/operator)</li> <li>• Password Recovery</li> </ul>

	<ul style="list-style-type: none"> <li>• Backup/Firmware Upgrade</li> <li>• Ping</li> <li>• Traceroute</li> <li>• Port Description</li> <li>• Configuration Backup/Upload Configuration</li> <li>• Multiple Configurations</li> <li>• Download/Upload             <ul style="list-style-type: none"> <li>- TFTP (RFC783)</li> <li>- HTTP</li> <li>- UART</li> </ul> </li> <li>• CPU Monitoring</li> <li>• LLDP, LLDP-MED</li> <li>• DHCP Client</li> <li>• DHCPv6</li> <li>• DHCP Option 82</li> <li>• DNS Client</li> </ul>
MIB Standards	<ul style="list-style-type: none"> <li>• RFC1213 MIBII</li> <li>• RFC2819 RMON: 1, 2, 3, 9 groups</li> <li>• RFC1215 Generic Traps</li> <li>• RFC1493 Bridge MIB</li> <li>• RFC2674 Bridge MIB Extensions</li> <li>• RFC 2737 Entity MIB</li> <li>• RFC3635 Ethernet-Like MIB</li> <li>• RFC2863 Interface Group</li> <li>• SNMP-Community-MIB</li> <li>• SNMPv3-MIB</li> </ul>

### Physical Parameters

Dimensions (L x W x H)	<ul style="list-style-type: none"> <li>• 271 x 182 x 45 mm</li> </ul>
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### Operating Conditions

Power	<ul style="list-style-type: none"> <li>• 100-240V AC, 50/60 Hz</li> </ul>
Temperature	<ul style="list-style-type: none"> <li>• Operating: 0 to 45 °C</li> <li>• Storage: -40 to 70 °C</li> </ul>
Humidity	<ul style="list-style-type: none"> <li>• Operating: 10% to 90% non-condensing</li> <li>• Storage: 5% to 95% non-condensing</li> </ul>



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**Package Contents**

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**Ordering Information**

OS6208/A1A	L2 Managed Switch, 8x10GBase-T
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