



# OS6208F

## 8-port 10G SFP+ L2 Managed Switch

8x10G SFP+, 1xConsole RJ-45, 19" rack mounting



The ORIGO OS6208F is a high-performance L2 managed switch with 8 10G SFP+ ports.

The ORIGO OS6208F 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 OS6208F 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 OS6208F 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 OS6208F is managed through Command Line Interface (CLI), SNMP and Web-based interface.

### Key Features

- 8 10G SFP+ 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



## 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 10GBase-X SFP+</li><li>• 1 Console RJ-45 port</li></ul>
Standards and Functions	<ul style="list-style-type: none"><li>• IEEE 802.3z 1000Base-X</li><li>• IEEE 802.3ae 10GBase-X</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	<ul style="list-style-type: none"><li>• 12 KB</li></ul>

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**Software**

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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 addresses 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>• SNMP</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</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>• DHCPv6</li> <li>• DHCP Client</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>
<b>Physical Parameters</b>	
Dimensions (L x W x H)	<ul style="list-style-type: none"> <li>• 195 x 165 x 40 mm</li> </ul>
<b>Operating Conditions</b>	
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**

Package Contents	<ul style="list-style-type: none"><li>• OS6208F Switch</li><li>• Power Cord</li><li>• Rack-Mount Kit</li><li>• Quick Installation Guide</li></ul>
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**Order Info**

OS6208F/A1A	L2 Managed Switch, 8x10GBase-X SFP+
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