



# OS5210

## 8-Port 2.5G Managed Switch with 2x10G SFP+ Uplink Ports

8x10/100/1000/2.5GBase-T, 2x10G SFP+, 1xConsole RJ-45, 19" rack mounting



OS5210 is a Managed L3 Switch with 8x100/1000/2.5GBase-T ports and 2x10G SFP+ uplink ports.

The ORIGO OS5210 switch is an effective solution for building and upgrading corporate and operator networks, providing multi-gigabit speeds at a low cost. 2.5G support increases network performance by 2.5 times compared to gigabit solutions without the need to replace existing cable infrastructure, and 10G uplinks provide high-speed connections to servers.

The OS5210 combines powerful L3 routing (OSPF, RIP) with advanced security, QoS, and flexible VLAN features. Designed for reliable performance, it supports link aggregation and redundancy protocols (STP/RSTP/MSTP, ERPS) to keep networks stable even in demanding environments.

The OS5210 is managed through Command Line Interface (CLI), SNMP and Web-based interface.

### Key Features

- 8x100/1000/2.5GBase-T ports
- 2x10G SFP+ uplinks
- Dynamic routing: RIP, OSPF
- 802.1Q VLAN, Multicast VLAN, Voice/Surveillance VLAN
- 802.1X authentication, ACL, Port Security
- ERPS, STP/MSTP/RSTP, LACP
- QoS for traffic prioritization
- Management via Web UI, CLI (Telnet, SSH, Console) and SNMP



## Specifications

### Hardware

|                         |   |
|-------------------------|---|
| CPU and Memory          | <ul style="list-style-type: none"><li>• CPU: RTL9302C</li><li>• RAM: 512 MB</li><li>• Flash: 16 MB</li></ul>  |
| Interfaces              | <ul style="list-style-type: none"><li>• 8x10/100/1000/2.5GBase-T (RJ-45) ports</li><li>• 2x10GBase-X SFP+ ports</li><li>• 1xRJ-45 console 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 802.3z 1000Base-X</li><li>• IEEE 802.3ae 10GBase-X</li></ul>  |
| LEDs                    | <ul style="list-style-type: none"><li>• PWR<ul style="list-style-type: none"><li>- On – power on state</li><li>- Off – power off state</li></ul></li><li>• Link/ACT (Ports 1 – 10)<ul style="list-style-type: none"><li>- Always bright – terminal device connected</li><li>- Flicker – data pass</li><li>- Off – no connection</li></ul></li><li>• SYS<ul style="list-style-type: none"><li>- Flicker – the system is working properly</li><li>- Off – power is off or a failure has occurred, the switch is not ready for operation</li></ul></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>   |
| Casing                  | <ul style="list-style-type: none"><li>• Metal</li></ul>   |
| Mounting                | <ul style="list-style-type: none"><li>• Desktop</li><li>• 19" rack</li></ul>  |

### Capacity

|                        |  |
|------------------------|--|
| Switching Capacity     | <ul style="list-style-type: none"><li>• 80 Gbps</li></ul>    |
| Packet Forwarding Rate | <ul style="list-style-type: none"><li>• 59.52 Mpps</li></ul> |



|                     |   |
|---------------------|---|
| Packet Buffer       | <ul style="list-style-type: none"><li>• 1.5 MB</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>• 6K(IPv4)/2K(IPv6)</li></ul> |
| L3 Forwarding Table | <ul style="list-style-type: none"><li>• 6K(IPv4)/2K(IPv6)</li></ul> |
| Jumbo Frame         | <ul style="list-style-type: none"><li>• 12 KB</li></ul>             |

## Software

|             |   |
|-------------|---|
| L2 Features | <ul style="list-style-type: none"><li>• Flow Control</li><li>• Link Aggregation<ul style="list-style-type: none"><li>- Static</li><li>- 802.3ad</li><li>- Up to 64 groups per device / up to 8 ports per group</li></ul></li><li>• Loopback Detection</li><li>• ERPS</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</li><li>- BPDU Filtering</li></ul></li><li>• LLDP</li><li>• LLDP-MED</li><li>• Port mirroring<ul style="list-style-type: none"><li>- One-to-One</li><li>- Many-to-One</li></ul></li></ul> |
| VLAN        | <ul style="list-style-type: none"><li>• 802.1Q, 4094 VLAN</li><li>• MAC-based VLAN</li><li>• Protocol-based VLAN (802.1v)</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><li>• Q-in-Q<ul style="list-style-type: none"><li>- Port-based</li></ul></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>- Supports up to 1K groups</li><li>- IGMP Snooping Fast Leave</li><li>- IGMP Filtering</li></ul></li><li>• MLD Snooping<ul style="list-style-type: none"><li>- MLD v1/v2</li><li>- Supports up to 1K groups</li></ul></li></ul>  |
| L3 Features               | <ul style="list-style-type: none"><li>• Maximum number of IP interfaces: 32</li><li>• 8K ARP entries</li><li>• Static routing for IPv4/IPv6<ul style="list-style-type: none"><li>- 6K IPv4 routes</li><li>- 2K IPv6 routes</li></ul></li><li>• RIPv1/v2</li><li>• OSPFv2</li></ul>  |
| QoS                       | <ul style="list-style-type: none"><li>• 802.1p</li><li>• CoS based on:<ul style="list-style-type: none"><li>- DSCP</li><li>- IP Precedence</li></ul></li><li>• Queue handling<ul style="list-style-type: none"><li>- Strict Priority (SP)</li><li>- Weighted Round Robin (WRR)</li></ul></li><li>• Port-based bandwidth control</li><li>• Supports up to 8 egress queues per port</li></ul> |
| Access Control List (ACL) | <ul style="list-style-type: none"><li>• Up to 2K ACL entries</li><li>• ACL based on:<ul style="list-style-type: none"><li>- MAC address</li><li>- IP address</li><li>- Ether Type</li><li>- VLAN ID</li><li>- 802.1p priority</li><li>- Protocol Type</li><li>- DSCP</li><li>- TCP/UDP port number</li></ul></li></ul>  |
| Security                  | <ul style="list-style-type: none"><li>• Port Security<ul style="list-style-type: none"><li>- Supports up to 16K MAC addresses per port</li></ul></li><li>• Port Isolation</li><li>• Storm Control</li></ul>   |

|            |   |
|------------|---|
|            | <ul style="list-style-type: none"> <li>• IP Source Guard</li> <li>• Dynamic ARP Inspection</li> <li>• ARP Spoofing Prevention             <ul style="list-style-type: none"> <li>- Max. 1K entries</li> </ul> </li> <li>• DoS Attack Prevention</li> <li>• IP-MAC-Port Binding</li> <li>• IP-MAC-Port-VLAN Binding</li> <li>• DHCP Snooping</li> <li>• DHCPv6 Snooping</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>- Web Access Control (WAC)</li> </ul> </li> <li>• RADIUS/TACACS+ Authentication</li> <li>• RADIUS server with IPv6 support</li> </ul>   |
| OAM        | <ul style="list-style-type: none"> <li>• Cable Diagnostics</li> <li>• DDM (Digital Diagnostics Monitoring)</li> </ul>   |
| Management | <ul style="list-style-type: none"> <li>• Web-based UI</li> <li>• CLI</li> <li>• Telnet</li> <li>• SSH</li> <li>• FTP</li> <li>• TFTP</li> <li>• System Log</li> <li>• SNMP v1/v2c/v3</li> <li>• SNMP Traps</li> <li>• SNTTP</li> <li>• Firmware Backup/Upgrade</li> <li>• Ping/Traceroute for IPv4/IPv6</li> <li>• DHCP Client</li> <li>• DHCP Relay</li> <li>• DHCPv6 Relay</li> <li>• DHCP Option 82</li> <li>• DNS Client for IPv4/IPv6</li> </ul> |

### Physical Parameters

|                           |   |
|---------------------------|---|
| Dimensions<br>(L x W x H) | <ul style="list-style-type: none"> <li>• 271 x 181.5 x 44.5 mm</li> </ul> |
|---------------------------|---|



|                    |  |
|--------------------|--|
| Weight             | <ul style="list-style-type: none"><li>• 1.18 kg</li></ul>              |
| Package Dimensions | <ul style="list-style-type: none"><li>• 34.5 x 26.2 x 8.7 cm</li></ul> |
| Gross Weight       | <ul style="list-style-type: none"><li>• 1.72 kg</li></ul>              |

### Operating Conditions

|             |  |
|-------------|--|
| Power Input | <ul style="list-style-type: none"><li>• 100-240V AC, 50/60 Hz</li><li>• Power cord length: 1.4 m</li></ul>                             |
| MTBF        | <ul style="list-style-type: none"><li>• &gt;100 000 hours</li></ul>  |
| Temperature | <ul style="list-style-type: none"><li>• Operating: 0 to 40 °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 90% (non-condensing)</li></ul> |

### Package Contents

|                  |  |
|------------------|--|
| Package Contents | <ul style="list-style-type: none"><li>• OS5210 Switch</li><li>• Power Cord (1.4 m)</li><li>• Rack Mount Kit</li><li>• Quick Installation Guide</li></ul> |
|------------------|--|

### Order Info

|        |   |
|--------|---|
| OS5210 | Managed L3 Switch, 8x2.5GBase-T, 2x10GBase-X SFP+ |
|--------|---|