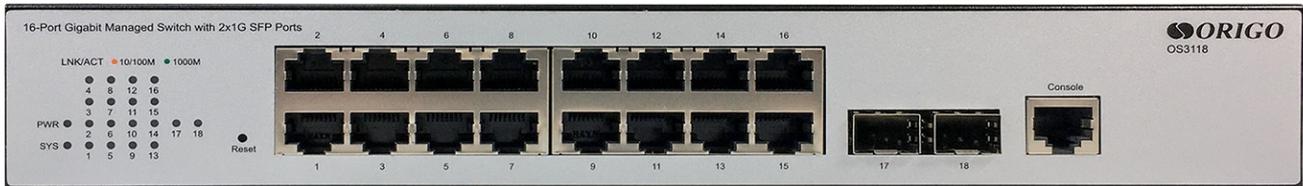




OS3118

16-Port Gigabit L2 Managed Switch with 2x100/1000Base-X SFP ports

16x1000Base-T (RJ-45), 2x100/1000Base-X SFP, 1xConsole RJ-45, 19" rack mounting



The ORIGO OS3118 is a managed L2 switch with 16x10/100/1000Base-T ports and 2x100/1000Base-X SFP ports.

The ORIGO OS3118 is recommended for building of the networks of small, medium and large-sized enterprises that need a modern gigabit solution with functions that provide basic routing, security, access control, fault-tolerance, quality of service and VLAN.

The OS3118 supports a static routing, advanced VLAN functionality, Port Security, 802.1X authentication and ACL. 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 OS3118 supports Link Aggregation Control Protocol (LACP), the redundant connections by means of STP/RSTP/MSTP, Loopback Detection and ERPS, providing fast network recovery if one of the ring links fails.

Key Features

- 16x10/100/1000Base-T (RJ-45) ports
- 2x100/1000Base-X SFP ports
- Static routing
- 802.1X, ACL, Port Security
- 802.1Q VLAN, Voice VLAN, Selective Q-in-Q
- ERPS, STP/RSTP/MSTP, Loopback Detection for enhanced network reliability
- QoS features for traffic prioritization
- IGMP/MLD Snooping to work with multicast traffic
- Management via Web UI, Console, Telnet, SSH, SNMP



Product Specifications

Hardware Specifications

CPU and Memory	<ul style="list-style-type: none">• CPU: RTL8382M• RAM: 128 MB• Flash: 32 MB
Interfaces	<ul style="list-style-type: none">• 16 x 10/100/1000Base-T (RJ-45)• 2 x 100/1000Base-X SFP• 1 Console RJ-45 port
Standards and Functions	<ul style="list-style-type: none">• IEEE 802.3 10Base-T• IEEE 802.3u 100Base-TX• IEEE 802.3ab 1000Base-T• IEEE 802.3u 100Base-FX• IEEE 802.3z 1000Base-X• IEEE 802.3x (Full Duplex Flow Control)• IEEE 802.3az Energy-Efficient Ethernet• Auto-negotiation• Auto MDI/MDIX on all copper ports
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 – 18)<ul style="list-style-type: none">- Always bright – terminal device is connected- Blinking – data pass- Off – no connection• SYS<ul style="list-style-type: none">- Blinking – the switch is working correctly- Off – the switch is booting up or a failure has occurred
Buttons	<ul style="list-style-type: none">• Reset
Power	<ul style="list-style-type: none">• Power connector (AC)



Ventilation	<ul style="list-style-type: none">• Fanless
Case	<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">• 36 Gbps
Packet Forwarding Rate	<ul style="list-style-type: none">• 26.78 Mpps
Packet Buffer	<ul style="list-style-type: none">• 512 KB
Transfer Mode	<ul style="list-style-type: none">• Store-and-forward
MAC Address Table	<ul style="list-style-type: none">• 8K entries
Routing Table	<ul style="list-style-type: none">• 512 entries (IPv4/IPv6)
L3 Forwarding Table	<ul style="list-style-type: none">• 512 entries (IPv4/IPv6)
Jumbo Frame	<ul style="list-style-type: none">• 9 216 bytes

Software

L2 Features	<ul style="list-style-type: none">• Flow Control• Link Aggregation<ul style="list-style-type: none">- Static- 802.3ad- Up to 8 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
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	<ul style="list-style-type: none">• 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- Supports Mirroring for Tx/Rx/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• GVRP• GMRP• Double VLAN (Q-in-Q)<ul style="list-style-type: none">- Selective Q-in-Q- Port-based Q-in-Q• VLAN Translation

	<ul style="list-style-type: none">• Multicast VLAN
L2 Multicast	<ul style="list-style-type: none">• IGMP Snooping<ul style="list-style-type: none">- IGMP v1/v2/v3- Up to 512 groups- IGMP Snooping Fast Leave- IGMP Proxy• MLD Snooping<ul style="list-style-type: none">- MLD v1/v2- Up to 512 groups• Multicast Source/Destination (DCSCM)
L3 Features	<ul style="list-style-type: none">• Up to 16 IP interfaces• 8K ARP entries• Static routing entries<ul style="list-style-type: none">- 512 for IPv4- 512 for IPv6• Gratuitous ARP
QoS	<ul style="list-style-type: none">• 802.1p• CoS based on:<ul style="list-style-type: none">- DSCP- VLAN ID- IP Precedence- IP ACL/ MAC ACL/ IPv6 ACL- IPv6 Flow label• Queue Handling<ul style="list-style-type: none">- Strict Priority (SP)- Weighted Round Robin (WRR)- Weighted Deficit Round Robin (WDRR)• Bandwidth control• 8 egress queues

Security	<ul style="list-style-type: none">• SSH v1/v2• SSL<ul style="list-style-type: none">- TLS 1.0/1.1/1.2 support- IPv4/IPv6 access support• Port Security<ul style="list-style-type: none">- Up to 8K MAC address per port• Port Isolation• Storm Protection• Dynamic ARP Inspection• ARP Spoofing Attack Prevention• ARP Scanning Prevention• ARP Guard• DoS Attack Prevention• DHCP Snooping• DHCPv6 Snooping• IPv6 SAVI• Security RA• CPU Protection
AAA	<ul style="list-style-type: none">• 802.1X Authentication:<ul style="list-style-type: none">- Port-based- MAC-based• Guest VLAN• RADIUS server with IPv6 support• RADIUS and TACACS+ Authentication
Access Control List (ACL)	<ul style="list-style-type: none">• 1.5K ACL entries• ACL based on:<ul style="list-style-type: none">- VLAN- MAC Address- IPv4 Address

	<ul style="list-style-type: none">- DSCP- ToS- TCP/UDP port number- Packet content defined by user• Time-based ACL
OAM	<ul style="list-style-type: none">• Cable diagnostics• ULDP (Unidirectional Link Detection Protocol)• Dying Gasp• 802.3ah Ethernet Link OAM• 802.1ag Connectivity Fault Management (CFM)• DDM (Digital Diagnostics Monitoring)• Watchdog
Management	<ul style="list-style-type: none">• Web-base UI• CLI• Telnet• SSH v1/v2• FTP• TFTP• System Log• SNMP v1/v2c/v3• SNMP Traps• SNTP• NTP• Firmware Backup/Upgrade• Ping/Traceroute for IPv4/IPv6• DHCP Server• DHCPv6 Server• BootP/DHCP Client• DHCP Relay



	<ul style="list-style-type: none">• DHCPv6 Relay• DHCP Option 82, 43, 60, 61, 67• DNS Client for IPv4/IPv6
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Physical Parameters

Dimensions (L x W x H)	<ul style="list-style-type: none">• 280 x 180 x 44 mm
Weight	<ul style="list-style-type: none">• 1.32 kg
Package Dimensions	<ul style="list-style-type: none">• 37 x 23 x 8 cm
Gross Weight	<ul style="list-style-type: none">• 1.92 kg

Operating Conditions

Power Input	<ul style="list-style-type: none">• 100-240V AC, 50/60 Hz
Max Power Consumption	<ul style="list-style-type: none">• 12.7W
Standby Power Consumption	<ul style="list-style-type: none">• 4.69W
Heat Dissipation	<ul style="list-style-type: none">• 14.38W (49.13 BTU/h)
Surge Protection	<ul style="list-style-type: none">• Common mode ± 2KV• Differential mode ± 1KV
Electrostatic Standard	<ul style="list-style-type: none">• Contact ± 4KV• Air ± 6KV
MTBF	<ul style="list-style-type: none">• > 50 000 hours
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">• OS3118 Switch• Power cord• RJ45 console cable• 19" rack mounting kit• Quick Installation Guide
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Ordering Information

OS3118	L2 Managed Switch, 16x1000Base-T, 2x1000Base-X SFP
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