



OS3152

52-port L2 Managed Switch

48x1000Base-T (RJ-45), 4x100/1000Base-X SFP, 1xConsole RJ-45, 19" rack mounting



The ORIGO OS3152 is a high-performance L2 managed switch with 48 x 10/100/1000Base-T ports and 4 x 100/1000Base-X SFP ports.

The ORIGO OS3152 is recommended for building of the medium and large-sized enterprises' networks that need a modern gigabit solution with high port density and advanced functions that provide security, fault-tolerance, quality of service and network segmentation.

The OS3152 supports a static routing, advanced security functions and VLAN, including Port Security, ACL, 802.1X authentication, Guest VLAN, 802.1Q VLAN and Double VLAN (Q-in-Q).

To increase network performance and resiliency, the OS3152 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. The support of OAM functionality facilitates monitoring and troubleshooting on Ethernet.

The OS3152 is managed through Command Line Interface (CLI), SNMP and Web-based interface.

Key Features

- 48x10/100/1000Base-T ports
- 4x100/1000Base-X SFP ports
- 16K MAC Address
- IPv4/IPv6 static routing
- 802.1X authentication, ACL, Port Security
- 802.1Q VLAN, Selective Q-in-Q, Multicast VLAN
- ERPS, STP/MSTP/RSTP, Loopback Detection for enhanced network reliability
- Advanced QoS features for traffic prioritization
- IGMP/MLD Snooping to work with multicast traffic
- Management via Web, Console, Telnet, SSH, SNMP



Product Specifications

Hardware Specifications

CPU and Memory	<ul style="list-style-type: none">• CPU: RTL8393M• RAM: 128 MB• Flash: 32 MB
Interfaces	<ul style="list-style-type: none">• 48 x 10/100/1000Base-T• 4 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 Flow Control• Auto-negotiation• Auto MDI/MDIX
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 – 52)<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">• 104 Gbps
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Transfer Mode	• Store-and-forward
MAC Address Table	• 16K entries
Packet Forwarding Rate	• 77.38 Mpps
Packet Buffer	• 1.5 MB
Routing Table	• 512 entries (IPv4/IPv6)
L3 Forwarding Table	• 512 entries (IPv4/IPv6)
Jumbo Frame	• 12 KB

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• 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 and LLDP-MED• Port Mirroring<ul style="list-style-type: none">- One-to-One- Many-to-One- Flow-based- CPU-based
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	<ul style="list-style-type: none"> - 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 • 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

	<ul style="list-style-type: none"> - 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 16K 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"> • 2K 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-based GUI • 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 • DHCPv6 Relay • DHCP Option 82, 43, 60, 61, 67 • DNS Client for IPv4/IPv6
Physical Parameters	
Dimensions (L x W x H)	<ul style="list-style-type: none"> • 440 x 260 x 44 mm
Package Dimensions	<ul style="list-style-type: none"> • 50.4 x 34.8 x 9 cm



Gross Weight	<ul style="list-style-type: none">• 4.19 kg
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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">• 43.6W
Heat Dissipation	<ul style="list-style-type: none">• 43.57W (148.76 BTU/h)
MTBF	<ul style="list-style-type: none">• > 50 000 hours
Surge Protection	<ul style="list-style-type: none">• Common mode ± 2KV• Differential mode ± 1KV
Electrostatic Standard	<ul style="list-style-type: none">• Contact ± 6KV• Air ± 8KV
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">• OS3152 Switch• Power cord• RJ45 console cable• 19" rack mounting kit• Quick Installation Guide
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Ordering Information

OS3152	L2 Managed Switch, 48x1000Base-T, 4x1000Base-X SFP
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