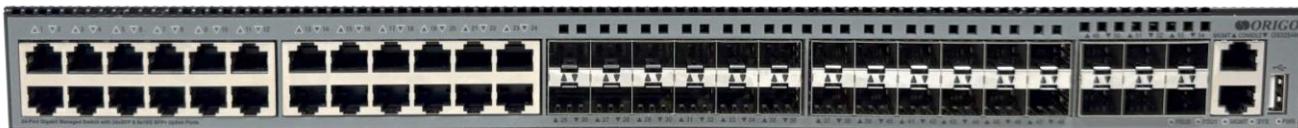




OS3254M

L3 Managed Switch with 24x1000Base-T Ports, 24xSFP Ports, and 6x10G SFP+ Ports

24x10/100/1000Base-T (RJ-45), 24x100/1000Base-X SFP, 6x10GBase-X SFP+, Console RJ-45, 100Base-TX (OOB), USB 2.0, 2×AC Power Modules, 3×Fan Modules, 19" rack mounting



The ORIGO OS3254M is a managed L3 switch with 24x1000Base-T RJ-45 ports, 24x100/1000Mbps SFP slots, and 6x10G SFP+ uplinks.

The OS3254M switch is designed for deployment in enterprise and ISP networks, delivering a high-performance and resilient distribution-layer solution with 10G connectivity and a high density of both copper and fiber Gigabit interfaces.

The OS3254M is equipped with three fan modules with automatic speed control and two hot-swappable AC power modules. Built-in 6kV surge protection meets industry surge standards, guarding the switch and connected devices from damage and network instability caused by ESD and lightning-induced surges. This design guarantees continuous availability and fault tolerance in mission-critical environments.

The switch combines powerful L3 routing capabilities (RIP, IS-IS, OSPF, BGP, PIM) with advanced security, QoS, and flexible VLAN features. Designed for reliable performance, the switch supports link aggregation (LACP, MLAG), redundancy protocols (STP/RSTP/MSTP), and ERPS technology for fast recovery in case of link failure within a ring topology. Built-in OAM tools provide comprehensive monitoring and troubleshooting, making network management simple and efficient.

Key Features

- 24 x 10/100/1000Base-T (RJ-45) ports
- 24 x 100/1000Base-X SFP ports
- 6 x 10G SFP+ uplinks
- 2 hot-swappable AC power modules
- 3 fan modules with automatic speed control
- Built-in 6kV surge protection
- Dynamic routing: RIP, IS-IS, OSPF, BGP
- PIM-SM for multicast routing
- 802.1Q VLAN, Selective Q-in-Q, Multicast VLAN
- MLAG, ERPS, STP/RSTP/MSTP for high availability
- 802.1X authentication, ACL, IP Source Guard
- Management via Web UI, CLI (Telnet, SSH, Console), and SNMP



Specifications

Hardware

CPU and memory	<ul style="list-style-type: none">• CPU: RTL9311• RAM: 1 GB• Flash: 64 MB
Interfaces	<ul style="list-style-type: none">• 24 x 10/100/1000Base-T (RJ-45)• 24 x 100/1000Base-X SFP• 6 x 10G Base-X SFP+• 1 x RJ-45 console port• 10/100Base-TX management port (OOB)• USB 2.0 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 802.3ae 10GBase-X
LEDs	<ul style="list-style-type: none">• PWR• Link/Act• SYS• MGMT• PSU0• PSU1
Power	<ul style="list-style-type: none">• 2 x pluggable AC power modules• 1+1 redundancy• Hot-swappable
Ventilation	<ul style="list-style-type: none">• 3 x pluggable fan modules• Automatic speed control
Housing	<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">• 216 Gbps
Packet Forwarding Rate	<ul style="list-style-type: none">• 160.71 Mpps
Packet Buffer	<ul style="list-style-type: none">• 2 MB
Transfer Mode	<ul style="list-style-type: none">• Store-and-forward
MAC Address Table	<ul style="list-style-type: none">• 32K entries
Routing Table Size	<ul style="list-style-type: none">• 12K
L3 Forwarding Table	<ul style="list-style-type: none">• 12K
Jumbo Frame	<ul style="list-style-type: none">• 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 64 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)
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	<ul style="list-style-type: none"> • LLDP • LLDP-MED • Port Mirroring <ul style="list-style-type: none"> - One-to-One - Many-to-One - Flow-based - CPU-based - Ingress/egress/both • RSPAN • L2 Protocol Tunneling • Multi-Chassis Link Aggregation Group (MLAG) • Smart Link
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 • MVRP • 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 - Supports up to 4K groups - IGMP Snooping Fast Leave - IGMP Proxy - IGMP Authentication (RADIUS) • MLD Snooping <ul style="list-style-type: none"> - MLD v1/v2



	<ul style="list-style-type: none">- Supports up to 4K groups• Multicast Source/Destination (DCSCM)
L3 Features	<ul style="list-style-type: none">• Maximum number of IP interfaces: 32• 8K ARP entries• Static routing for IPv4/IPv6<ul style="list-style-type: none">- 12K IPv4 routes- 12K IPv6 routes• Gratuitous ARP• GLPD (GARP Leave Proxy Device)• Bidirectional Forwarding Detection (BFD)• RIPv1/v2• OSPFv2• BGPv4• IS-IS• IS-ISv6• VRRP
L3 Multicast	<ul style="list-style-type: none">• PIM-SM
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 Labels• Queue Handling<ul style="list-style-type: none">- Strict Priority (SP)- Weighted Round Robin (WRR)- Weighted Deficit Round Robin (WDRR)• Port-based bandwidth control• Supports up to 8 egress queues per port
Security	<ul style="list-style-type: none">• IP Source Guard• Port Isolation• Storm Control• Dynamic ARP Inspection



	<ul style="list-style-type: none">• ARP Spoofing Protection• 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• IPv6 RADIUS Server• RADIUS/TACACS+ Authentication
Access Control Lists (ACL)	<ul style="list-style-type: none">• Up to 4K ACL entries• ACL based on:<ul style="list-style-type: none">- VLAN- MAC address- IPv4 address- DSCP- ToS- TCP/UDP port number- User-defined ACL• Time-based ACL
OAM	<ul style="list-style-type: none">• Cable Diagnostics• ULDP (Unidirectional Link Detection Protocol)• 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 UI• CLI• Telnet



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- SSH
 - FTP
 - TFTP
 - System Log
 - SNMP v1/v2c/v3
 - SNMP Traps
 - SNTP
 - NTP
 - Firmware Backup/Upgrade
 - Ping/Traceroute (IPv4/IPv6)
 - DHCP Server
 - DHCPv6 Server
 - BootP/DHCP Client
 - DHCP Relay
 - DHCPv6 Relay
 - DHCP Option 82, 43, 60, 61, 67
 - DNS Client (IPv4/IPv6)
 - Precision Time Protocol (PTP)
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Physical Parameters

Dimensions (W × D× H)	• 440 x 380 x 44 mm
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Operating Conditions

Power Input	• 100-240V AC, 50/60 Hz
Surge Protection	• Up to 6kV (copper ports)
Temperature	<ul style="list-style-type: none">• Operating: 0 to 50 °C• Storage: -40 to 70 °C
Humidity	<ul style="list-style-type: none">• Operating: 20% to 90% (non-condensing)• Storage: 20% to 90% (non-condensing)



Package Contents

Package Contents	<ul style="list-style-type: none">• OS3254M Switch• 2xAC Power Modules• 3xFan Modules• 2xPower Cords• RJ-45 Console Cable• Grounding Wire• Rack-Mount Kit• Quick Installation Guide
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Order Info

OS3254M	Managed L3 PoE Switch, 24x1000Base-T, 24x1000Base-X SFP, 6x10GBase-X SFP+ <i>With 2 AC power modules and 3 fan modules included</i>
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