

# S9 Series Switches

## Datasheet

Version: V1.2

Release Date: 2026/3

### Product Overview

The S9 Series Switch features high-performance Layer 3 Core and data center switches powered by a next-generation MAC SoC. Leveraging advanced hardware processes, the series provides full Layer 3 networking capabilities for high-speed Data Center, Enterprise and operator environments



### Highlight Features

- Data Center Fabric: Hardware-accelerated VXLAN with BGP-EVPN control plane for scalable overlay networks.
- RDMA: End-to-end data forwarding, build a lossless network without packet loss
- Line-Rate Security: MACsec (AES-CMAC) encryption for secure, hardware-based switch-to-switch link protection.
- Carrier-Grade Reliability: MLAG support for Active-Active redundancy, providing device-level failover and hitless upgrades.
- Nanosecond Precision: IEEE 1588 PTP (Precision Timing Protocol) for time-sensitive synchronization.

The S9 Series switches provide redundant hot-swappable power supplies (AC and DC are both available) and 4 bays with Field replaceable fan modules. Generally, airflow of this series is front to rear (AFO), but a customization of rear to front (AFI) airflow is also acceptable.

### Feasible PSU and airflow

Items	AC	DC	AFO	AFI	Power Input	FAN
S9432OF	○	○	○	○	2	4
S9332DQ	○	○	○	○	2	6
S9364DQ	○	○	○	○	2	4
S9264BQ	○	○	○	○	2	4
S9232BQ-2X	○	○	○	○	2	5

## S9 Series Products Overview

Models	Ethernet Ports	Management	PSU 1/PSU 2	Cooling
S9432OF	32 x 800G OSFP	Console: RJ45 to RS232 Ethernet: 1G Port	3200W/3200W CRPS	4 x Fan Modules (front-to-back airflow)
S9332DQ	32 x 400G QSFP112	Console: RJ45 to RS232 Ethernet: 1G Port Storage: USB	1300W/1300W CRPS	6 x Fan Modules (front-to-back airflow)
S9364DQ	64 x 400G QSFP112	Console: RJ45 to RS232 Ethernet: 1G Port Storage: USB	3200W/3200W CRPS	4 x Fan Modules (front-to-back airflow)
S9264BQ	64 x 200G QSFP56+2	Console: RJ45 to RS232 Ethernet: 1G Port Storage: USB	3200W/3200W CRPS	4 x Fan Modules (front-to-back airflow)
S9232BQ-2X	32 x 200G QSFP56+2 x 10G SFP+	Console: RJ45 to RS232 Ethernet: 1G Port Storage: USB	800W /800W CRPS	5 x Fan Modules (front-to-back airflow)

## Product Specifications

### Packet Switch capacity (Tbps)

- S9432OF: 51.2 Tbps (bidirectional)
- S9332DQ: 25.6Tbps(bidirectional)
- S9364DQ: 51.2 Tbps (bidirectional)
- S9264BQ: 25.6Tbps(bidirectional)
- S9232BQ-2X: 12.84Tbps(bidirectional)

### Layer 2/Layer 3 Throughput (Gpps)

- S9432OF: 76.19 Gpps (bidirectional)
- S9332DQ: 38.09 Gpps (bidirectional)
- S9364DQ: 76.18 Tbps (bidirectional)
- S9264BQ: TBD
- S9232BQ-2X: 19.106 Gpps (bidirectional)

### Power consumption

Worst case, all ports used, line-rate traffic

- S9432OF: TBD
- S9332DQ: 383W
- S9364DQ: TBD
- S9264BQ: TBD
- S9232BQ-2X: 580W

### Dimensions (W x H x D) without package

- S9432OF: 44.2 x 8.8 x 56cm
- S9332DQ: 44.2 x 4.4 x 49.7cm
- S9364DQ: 44.2 x 8.8 x 62cm
- S9264BQ: TBD
- S9232BQ-2X : 44.2 x 4.4 x 47cm

### Weight (Net weight/Gross weight)

- S9432OF: 11.8kg/16kg
- S9332DQ: 11.5kg/16kg
- S9364DQ: 20.34kg/24kg
- S9264BQ: TBD
- S9232BQ-2X: 9.2kg/11kg

### Typical power consumption

- S9432OF: TBD
- S9332DQ: 307W
- S9364DQ:
- S9264BQ:
- S9232BQ-2X: 210W

## Product Specifications

### CPU

- Quad-core processor, ARM A53

### MTBF

- All Model  $\geq$ 90000H

### Memory

- eMMC: 8GB on all models
- DRAM: 2GB on all models

### Environmental ranges

- Operating temperature: 0°C to 45°C
- Storage temperature: -40°C to 70°C
- Running Humidity: 10% to 90% (No condensation)
- Store Humidity: 5 to 95% (No condensation)

### Temperature alarm

- Alarm threshold: 50°C

The S9 Series supports a comprehensive range of management options, including CLI, Web-based, and Cloud-managed platforms. Administrators can utilize SNMP v1/v2/v3, Telnet, and FTP, while security is bolstered by SSH2.0. Additionally, integrated OAM support ensures streamlined operations and more convenient network maintenance.

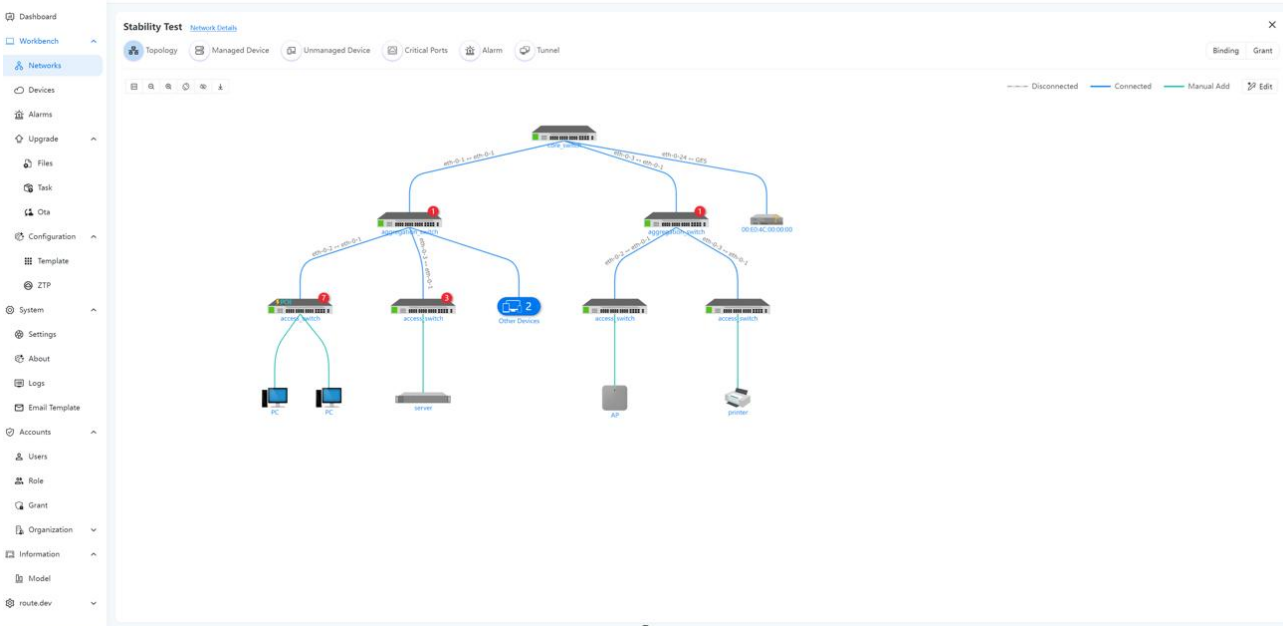
## Cloud management

Leveraging deep expertise in campus and enterprise networking, ETHERNEXION introduces the UniCloud Management System. By integrating intelligent automation, UniCloud streamlines network maintenance, reduces operational costs, and ensures a secure, high-performance environment tailored to evolving user demands.

The platform designed to provide digital solutions for the entire lifecycle of network elements, including switches, routers, and wireless APs:

- Unified Device Management:** Provides a centralized platform for managing configuration policies, firmware upgrades, and statistical analysis of device operating data.
- Remote O&M Capabilities:** Utilizing a lightweight reverse proxy (FRP) and an integrated WebTerminal (SSH/Telnet), the system enables secure, cross-network access to intranet devices with latency under 200ms.
- Automated Deployment & Topology:** Supports Zero-Touch Deployment for large-scale automation. It also uses LLDP to automatically discover and draw intuitive, real-time network topology maps.
- Advanced Monitoring:** Includes a distributed MQTT engine for real-time status reporting (latency <50ms) and a multimodal database architecture (MySQL, InfluxDB, Redis, Elasticsearch) for efficient data analysis and logging.
- Security & Access Control:** Features a multi-level RBAC permission system, high-risk command interception, and WAF protection to block network attacks.

The following is a diagram illustrating cloud-managed ETHERNEXION switches. For more detailed information, please refer to “ETHERNEXION Cloud Controller specification”.



## Visual WEB GUI

ENOS allows you to quickly configure common configuration items using a visual WEB GUI, which lowers the application threshold for users.

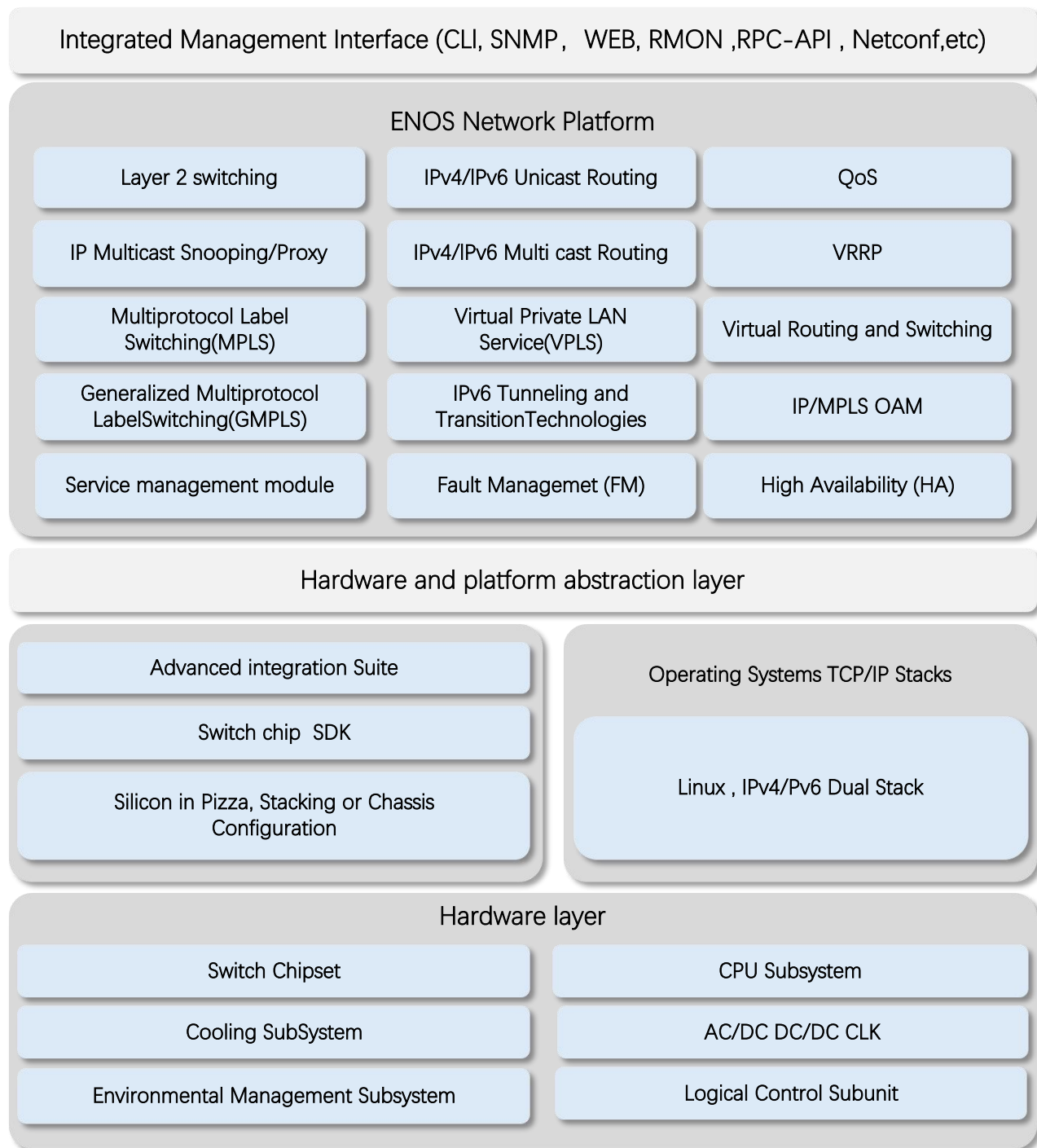
The screenshot displays the ENOS Visual WEB GUI interface. On the left is a navigation menu with options: Monitor, Configuration, Maintenance, and Network. The main content area is titled "Monitor" and includes the following sections:

- Device Information:** A table showing details such as Product ID, Software, Hardware Version (1.1), Uptime (0 days, 6 hours, 42 minutes), Location, Image Name (ulmage.lsl023a.e680.d), EPLD Version (0.2), Device Name (5648X), WebImage Name, Serial Number, Contact, BootRom Version (v1.0.2), and MAC Address (D8:5B:22:00:02:02).
- Interface Panel:** A visual representation of the switch's ports, showing their status (Active, Inactive, Shutdown) and type (Copper, Fiber, 40/100Gb).
- Usage:** Two progress bars showing CPU Usage at 7.53% and Memory Usage at 36.94%.
- Temperature:** A bar chart showing temperatures for "AROUND\_CHIP" and "SWITCH\_CHIP".
- Fan:** A bar chart showing the status of four fans (1-1, 1-2, 1-3, 1-4), with all fans showing "OK" status.

At the bottom, there is an "Auto refresh" dropdown set to "Manual" and a "Refresh" button. The footer contains the text "Copyright ©. All Rights Reserved."

## Software Specifications

ETHERNEXION implements a unified software platform, and the software capabilities supported by the devices are listed in the document [‘ENOS Software features’](#) .



- \* All ETHERNEXION switches use a normalized software platform and image package file
- \* Unified software version iteration plan
- \* Unified user experience

## Ordering Information

Items	Description
S9432OF	Data Center Switch, with 32*800G OSFP, 2*hot swappable power module, 4*Intelligent fan modules.
S9332DQ	Data Center switch, 32*400G QSFP112, 2*hot swappable power module, 6*Intelligent fan module
S9364DQ	Data Center switch, 64*400G QSFP112, 2*hot swappable power module, 4*intelligent fan module
S9264BQ	Data Center switch, 64*200G QSFP56, 2*hot swappable power module, 4*Intelligent fan module
S9232BQ-2X	Data Center switch, 32*200G QSFP56, 2*10G SFP+, 2*hot swappable power module, 5*Intelligent fan module

## Software Licenses

Items	Description
Software License	MS, L3 enhance features software license key, Preinstalled
Software License	MA, MPLS features software license key

## Accessory

Items	Front Mounting	Rear Mounting	Screw	Power Cord	Console (RS232 to RJ45)	Grounding Cable
S9432OF	2	4	14	2	1	1
S9332DQ	2	4	14	2	1	1
S9364DQ	2	4	14	2	1	1
S9264BQ	2	4	14	2	1	1
S9232BQ-2X	2	4	14	2	1	1

## About ETHERNEXION:

ETHERNEXION is an innovation-driven technology enterprise specializing in high-performance networking and communication solutions. Dedicated to creating tangible value for global clients, the company delivers a comprehensive portfolio of enterprise-grade, carrier-class hardware and intelligent, cloud-managed software. Ethernexion empowers enterprises, data centers, and small-to-medium service providers by providing high-performance, ultra-reliable, and highly cost-effective solutions that optimize operational efficiency and maximize return on investment. Driven by technical excellence, Ethernexion is committed to being a trusted partner in building scalable, secure, and future-ready network infrastructures.

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