



# Fortinet FS-224E-POE Datasheet

## Product Overview

- The Fortinet FortiSwitch Secure Access Family positions the FS-224E-POE as a reliable option for secure and high-performance network access.
- This model is well-suited for SD-Branch environments, distributed campuses, and businesses seeking convergence of security and connectivity.
- It features 24 Gigabit Ethernet ports, 4 SFP uplinks, and supports Power over Ethernet (PoE) with a 180W budget for flexible device connectivity.
- FortiSwitch integrates tightly with Fortinet Security Fabric, enabling advanced management through FortiGate using FortiLink for seamless control.
- Centralized provisioning, dynamic policy enforcement, and visibility across all network endpoints drive efficiency, reducing management workload.
- The FS-224E-POE empowers organizations to unify network security and access within a simple, scalable infrastructure for diverse applications.

## Product Highlights

- **Versatile Deployment Options:** Designed for both desktop and wiring closet installations, making it adaptable to different network environments.
- **Optimized for SD-Branch:** Ideal for SD-Branch solutions, enabling secure and flexible connections for remote sites and branches.
- **Centralized Management:** Offers integrated security and access management through FortiGate & FortiLink for streamlined operations.
- **Scalable Connectivity:** Supports up to 300 stackable switches per FortiGate and delivers high switching performance in a compact 1RU form factor.

## Detailed Features



FS-224E-POE

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| Component                 | Specification        |
|---------------------------|----------------------|
| GE RJ45 Ports             | 24                   |
| GE SFP Ports              | 4                    |
| Dedicated Management Port | 1 x 10/100 Mbps      |
| RJ-45 Serial Console Port | 1                    |
| PoE Ports                 | 12 (802.3af/802.3at) |



## Integrated Security Fabric

FS-224E-POE connects directly with Fortinet Security Fabric, providing deep integration for unified policy, automatic threat response, and full network visibility through FortiGate and FortiLink. This enables rapid detection and control of users and devices across wired and wireless connections, increasing the security baseline of your entire network.

## Centralized Management and Automation

With FortiLink, you can auto-discover and manage up to 300 FortiSwitch units per FortiGate (model dependent). Centralized VLAN, link aggregation, and firmware provisioning make rollouts efficient and reduce the operating costs of branch and campus deployments. Device and user policies are quickly synchronized network-wide for consistency.

## Robust PoE and Hardware Resilience

FS-224E-POE supplies 12 PoE ports supporting IEEE 802.3af/at on a 180W total power budget. The device is built for durability with a mean time between failures of over 10 years. Stack up to 48 ports in 1RU, or scale even larger with robust stacking and failover features, ensuring availability for critical deployments.

## Optimized Traffic Control

Wire-speed switching and forwarding (56Gbps/83Mpps), dynamic link aggregation, spanning tree, LLDP/MED, and IGMP snooping help optimize network traffic flow. The switch also supports dynamic port profiles and advanced forwarding, including L3 routing and policy-based routing via FortiGate to meet varied business demands.

## Advanced Network Security

FS-224E-POE features 802.1X authentication (port, MAC-based, MAB), DHCP snooping, syslog collection, MAC black/white list via FortiGate, and host quarantine for advanced access control. This ensures only authorized devices communicate across the LAN while providing integrated FortiGate NAC and FortiGuard IoT identification for continuous monitoring.

## High Availability & Redundancy

Support for FortiGate HA clusters, LAG, and active-active split LAG configurations allow for seamless failover and advanced redundancy. Dynamic and provisioned port configurations ensure network continuity even in the event of hardware or link outage, suitable for mission-critical applications.

## Seamless Non-FortiLink Management

If not integrated with FortiGate, the switch is still easily managed via web GUI, API, or CLI, letting organizations retain flexibility. Non-FortiLink deployments benefit from rich Layer 2 and L3 features, so the switch accommodates varied integration scenarios and management styles.

## Comprehensive UTM and Application Control

Through FortiGate, the switch provides extended protection with features like firewall, antivirus, botnet protection, application control, and more. Policy-based management and user/device segmentation are seamlessly delivered, creating a secure, application-aware access layer for modern enterprises.

# Technical Specifications

## Product Specifications

| Feature                          | Value                                 |
|----------------------------------|---------------------------------------|
| Total Network Interfaces         | 24x GE RJ45 ports and 4x GE SFP ports |
| Dedicated Management 10/100 Port | 1                                     |
| RJ-45 Serial Console Port        | 1                                     |
| Form Factor                      | 1 RU Rack Mount                       |
| Power over Ethernet (PoE) Ports  | 12 (802.3af/802.3at)                  |
| PoE Power Budget                 | 180 W                                 |
| Mean Time Between Failures       | > 10 years                            |
| Switching Capacity (Duplex)      | 56 Gbps                               |
| Packets Per Second (Duplex)      | 83 Mpps                               |
| MAC Address Storage              | 16 K                                  |



| Feature                                      | Value                 |
|--|-----------------------|
| Network Latency                              | < 1μs                 |
| VLANs Supported                              | 4 K                   |
| Link Aggregation Group Size                  | 8                     |
| Total Link Aggregation Groups                | Up to number of ports |
| Packet Buffers                               | 1.5 MB                |
| DRAM   | 512 MB                |
| FLASH  | 128 MB                |
| Dimensions (Height x Depth x Width - inches) | 1.73 x 9 x 12.99      |
| Dimensions (Height x Depth x Width - mm)     | 44 x 230 x 330        |
| Power Required                               | 100–240V AC, 50–60 Hz |
| Power Supply                                 | AC Built in           |
| Redundant Power                              | Optional FRPS-740     |
| Power Consumption (Average / Maximum)        | 220.18 W / 223.57 W   |
| Heat Dissipation                             | 74.29554 BTU/h        |
| Operating Temperature                        | 32–122°F (0–50°C)     |
| Storage Temperature                          | -4–158°F (-20–70°C)   |
| Humidity                                     | 10–90% non-condensing |

## Product Comparison

| Feature            | FS-224E-POE  | C1000-16T-2G-L          | DS-3E0518P-E/M          |
|--------------------|--|-------------------------|-------------------------|
| Fixed Ports        | 24x GE RJ45 & 4x GE SFP                              | 16x GE RJ45 & 2x GE SFP | 16x GE RJ45 & 2x GE SFP |
| PoE Ports          | 12 (802.3af/802.3at)                                 | 8 (802.3af/802.3at)     | 16 (802.3af/802.3at)    |
| PoE Power Budget   | 180 W  | 120 W                   | 230 W                   |
| Switching Capacity | 56 Gbps  | 32 Gbps                 | 7.2 Gbps                |
| Stacking Support   | Up to 300 via FortiGate                              | Not supported           | Not supported           |
| Management         | Centralized via FortiGate/<br>FortiLink; Web/CLI/API | Web/CLI                 | Web/CLI                 |
| Layer 3 Routing    | FortiGate dependent                                  | Limited/Not Supported   | Not Supported           |



| Feature               | FS-224E-POE       | C1000-16T-2G-L          | DS-3E0518P-E/M |
|-----------------------|-------------------|-------------------------|----------------|
| Redundant Power       | Optional FRPS-740 | External RPS (optional) | Not supported  |
| Operating Temperature | 0–50°C            | 0–45°C                  | 0–40°C         |

## Accessories

| Category             | Accessories   |
|----------------------|---|
| Included Accessories | <ul style="list-style-type: none"><li>- Power Cord</li><li>- Mounting Brackets</li><li>- Quick Start Guide</li></ul>                        |
| Optional Accessories | <ul style="list-style-type: none"><li>- SFP Transceiver Modules</li><li>- FRPS-740 Redundant Power Supply</li><li>- Console Cable</li></ul> |



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### UK Branch

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## References

[1] Fortinet. (2023). FortiSwitch Secure Access Series Datasheet. Retrieved from [https://25396221.fs1.hubspotusercontent-eu1.net/hubfs/25396224/Security/Fortinet/Datasheet\\_FortiSwitch\\_Secure\\_Access\\_Series.pdf](https://25396221.fs1.hubspotusercontent-eu1.net/hubfs/25396224/Security/Fortinet/Datasheet_FortiSwitch_Secure_Access_Series.pdf)