



Fortinet Fortinet FS-108E Datasheet

Product Overview

- Fortinet's FortiSwitch Secure Access Family delivers next-generation security and network access, tailored for modern business needs.
- Designed for offices, branch networks, and distributed enterprises, it fits both SMBs and larger organizations seeking reliable access solutions.
- The FS-108E provides 7x GE RJ45, 1x GE/POE-PD RJ45, and 2x GE SFP ports with a switching capacity of 20 Gbps for fast, seamless connectivity.
- Integrated with FortiGate via FortiLink, it centralizes network and security management for improved efficiency and control.
- Features like flexible deployment, advanced device visibility, and easy scalability set FortiSwitch apart in secure campus and SD-Branch deployment.
- With one platform, your network gains comprehensive protection, high availability, and optimized performance for all connected users and devices.

Product Highlights

- **Versatile Deployment Options:** Supports both desktop and wiring closet installations, meeting various space constraints and site requirements.
- **SD-Branch Ready:** Ideal for secure SD-Branch deployments, unifying branch security and network access with ease.
- **Centralized Management:** Managed directly via FortiGate with FortiLink, ensuring consistent security policies and full network visibility.
- **Flexible Network Integration:** Handles voice, data, and wireless traffic on one network and allows configuration through GUI, API, or CLI for diverse needs.

Detailed Features



Fortinet FS-108E

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| Component | Specification |
|---------------------|--|
| Network Interfaces | 7x GE RJ45, 1x GE/POE-PD RJ45, 2x GE SFP |
| Form Factor | Desktop |
| Switching Capacity | 20 Gbps |
| MAC Address Storage | 8K |
| VLANs Supported | 4K |



Integrated Security Fabric

Seamless integration with Fortinet Security Fabric through FortiLink enables unified threat protection and network control from a single interface. This enhances security posture and simplifies policy management, reducing risk and operational overhead across distributed environments.

Extensive Management Functions

The FS-108E offers auto discovery of up to 300 managed switches, centralized VLAN and PoE configuration, and direct GUI, API, or CLI management. Software upgrades, stack management, and dynamic port profiles streamline network administration for growing businesses.

High Availability and Stackable Architecture

Supports FortiLink stacking, high availability clusters, and active-active LAG, ensuring robust redundancy and continuous network operation. This architecture reduces downtime and accelerates recovery during incidents or hardware failure.

Advanced Configuration Capabilities

Admins benefit from features like centralized VLAN configuration, flexible port management, configurable link aggregation, and automated firmware provisioning. These allow for tailored, scalable deployments and future-proof expansion.

Comprehensive Security Controls

Port-based and MAC-based 802.1X authentication, DHCP snooping, MAC black/white listing, and integrated device detection bolster access-layer security. Device quarantine and policy-based access are tightly enforced through FortiGate for superior endpoint control.

User and Device Policy Enforcement

Policy control extends to granular user and device management, blocking intra-VLAN traffic and dynamically adapting profiles based on device behavior or security posture. FortiGuard IoT ID further increases network visibility and safe onboarding.

Rich L3 and UTM Features

Integrated Layer 3 routing, policy-based routing, and UTM features (including firewall, antivirus, application and botnet protection) provide advanced security and flexible traffic handling. All are centrally visible and managed through FortiGate.

Compliant and Reliable Design

Certified by FCC, CE, RCM, VCCI, BSMI, UL, CB, and RoHS2, FS-108E guarantees reliability, industry-standard compliance, and long operational life. MTBF of over 10 years sets a strong foundation for mission-critical deployments.

Technical Specifications

Product Specifications

| Feature | Value |
|----------------------------------|---|
| Total Network Interfaces | 7x GE RJ45, 1x GE/POE-PD RJ45 and 2x GE SFP |
| Dedicated Management 10/100 Port | 0 |
| RJ-45 Serial Console Port | 1 |
| Form Factor | Desktop |
| Power over Ethernet (PoE) Ports | 0 |
| PoE Power Budget | 0 |
| Mean Time Between Failures | > 10 years |
| Switching Capacity (Duplex) | 20 Gbps |
| Packets Per Second (Duplex) | 30 Mpps |
| MAC Address Storage | 8 K |
| Network Latency | 4µs |
| VLANs Supported | 4 K |



| Feature | Value |
|-------------------------------|---|
| Link Aggregation Group Size | 8 |
| Total Link Aggregation Groups | 8 |
| Packet Buffers | 512 KB |
| DRAM | 256 MB DDR3 |
| FLASH | 32 MB |
| Height (inches) | 1.5 |
| Depth (inches) | 6.3 |
| Width (inches) | 8.7 |
| Height (mm) | 38 |
| Depth (mm) | 160 |
| Width (mm) | 220 |
| Weight | 2.2 lbs (1 kg) |
| Power Required | 100–240V AC, 50–60 Hz |
| Power Supply | AC & PoE-PD Built in |
| Redundant Power | — |
| Power Consumption (Average) | 5.54 W |
| Power Consumption (Maximum) | 6.26 W |
| Heat Dissipation | 18.9 BTU/h |
| Operating Temperature (Min) | 32°F (0°C) |
| Operating Temperature (Max) | 104°F (40°C) |
| Storage Temperature (Min) | -40°F (-40°C) |
| Storage Temperature (Max) | 158°F (70°C) |
| Humidity | 10–90% non-condensing |
| Certification and Compliance | FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2 |

Product Comparison

| Feature | Fortinet FS-108E | CBS350-8XT-EU | C1000-16FP-2G-L |
|-------------|--|----------------------------|---------------------------------|
| Total Ports | 10 (7x GE RJ45, 1x GE/ POE-PD RJ45, 2x GE SFP) | 8x 10GBase-T, 2x 10Gb SFP+ | 16x 10/100/1000 PoE+, 2x GE SFP |



| Feature | Fortinet FS-108E | CBS350-8XT-EU | C1000-16FP-2G-L |
|--------------------|---|------------------------|------------------------|
| Switching Capacity | 20 Gbps | 240 Gbps | 32 Gbps |
| PoE Support | No | No | Yes |
| Management | Centralized (FortiLink via FortiGate), CLI, GUI | Web UI, CLI, SNMP | Web UI, CLI, SNMP |
| Layer 3 Support | With FortiGate integration | Static routing | Static routing |
| Stacking Support | Up to 300 switches per FortiGate | Yes, up to 4 units | Not supported |
| Redundant Power | No | No | No |
| Compliance | FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2 | CE, FCC, UL | CE, FCC, UL |
| Typical Usage | Secure branch, SMB, enterprise edge | Gigabit desktop access | SMB, PoE device access |
| Weight | 2.2 lbs (1 kg) | Approx. 2.1 kg | Approx. 2.1 kg |

Accessories

| Category | Accessories |
|----------------------|--|
| Included Accessories | <ul style="list-style-type: none"> - Power Adapter - Mounting Kit - Quick Start Guide |
| Optional Accessories | <ul style="list-style-type: none"> - SFP Transceiver - Console Cable - PoE Injector |



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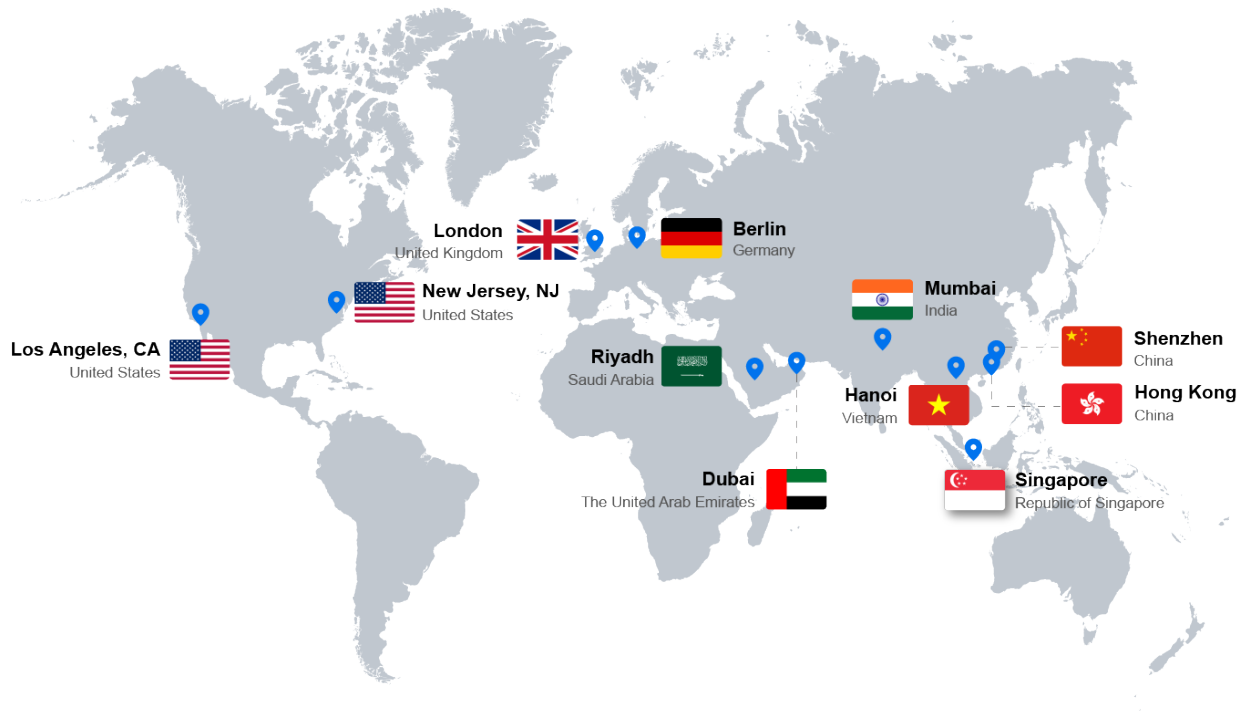
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References

[1] Fortinet. (2023). FortiSwitch Secure Access Series Datasheet. Retrieved from https://25396221.fs1.hubspotusercontent-eu1.net/hubfs/25396231/Security/Fortinet/Datasheet_FortiSwitch_Secure_Access_Series.pdf