

Cisco Firepower 9300

Carrier-Grade Modular Security Platform (AC Power Configuration)

Product Data Sheet
Series: FPR9300 Chassis (AC)

The **Cisco Firepower 9300 Series (AC Powered)** is a scalable, modular, 3RU carrier-grade security platform designed for service providers, high-performance computing centers, and high-density enterprise data centers. With support for up to 3 hot-swappable Security Modules (SM-40, SM-48, SM-56), ultra-low latency (<5 microsecond offload), and multi-terabit clustering capabilities, it delivers extreme throughput and resilience.

KEY VALUE HIGHLIGHTS

Scalable Modular Security

3RU chassis holding up to 3 independent security modules, scaling throughput from 55 Gbps to 190+ Gbps in a single unit.

AC Power Redundancy

Dual hot-swappable AC power supplies (PSU-1 & PSU-2) providing full 1+1 grid redundancy for non-stop operations.

High-Speed I/O Expansion

Supervisor includes 8 fixed 10GE SFP+ ports plus 2 Network Module (NetMod) slots supporting up to 100GE QSFP28 interfaces.

Carrier-Grade Reliability

NEBS-compliant hardware architecture featuring 4 hot-swappable fan trays and multi-chassis clustering scaling beyond 1 Tbps.

PERFORMANCE & CAPACITY SPECIFICATIONS (FTD IMAGE)

Performance Metric	SM-40 Module	SM-48 Module	SM-56 Module	3 x SM-56 (Fully Populated)
FW + AVC Throughput	55 Gbps	65 Gbps	70 Gbps	190 Gbps
FW + AVC + NGIPS Throughput	55 Gbps	65 Gbps	68 Gbps	190 Gbps
NGIPS Throughput (Standalone)	60 Gbps	68 Gbps	73 Gbps	190 Gbps
IPSec VPN Throughput	27 Gbps	33 Gbps	36 Gbps	110 Gbps
TLS / SSL Hardware Decryption	10 Gbps	11 Gbps	12 Gbps	28 Gbps
Max Concurrent Sessions (AVC)	35 Million	35 Million	35 Million	60 Million
New Connections / Sec (AVC)	380,000	450,000	490,000	1,100,000 (1.1M)
Max VPN Peers	20,000	20,000	20,000	60,000

HARDWARE ARCHITECTURE & INTERFACES

- Supervisor Module:** Integrates chassis management, 8 x 10Gbps SFP+ data ports, and 2 x Network Module slots.
- Security Module Bays:** 3 x hot-swappable slots supporting SM-40 (40 cores), SM-48 (48 cores), or SM-56 (56 cores).
- Network Modules (NetMods):** Supports 8x10G SFP+, 4x40G QSFP+, 2x100G QSFP28, 4x100G QSFP28, and HW Bypass options.
- Storage Capacity:** Up to 4.8 TB SSD total per chassis (1.6 TB RAID 1 per security module).
- Form Factor:** 3RU Rack-Mountable (fits EIA-310-D standard 19-inch racks).

SOFTWARE FEATURES & CAPABILITIES

Feature Area	Capabilities & Descriptions
Operating Systems	Supports Cisco Secure Firewall Threat Defense (FTD) or Cisco ASA Software .
Clustering & Multi-Tenant	Multi-instance hardware containerization and inter-chassis clustering up to 1 Tbps aggregate throughput.
Threat Intelligence	Real-time threat updates and dynamic IP/URL/DNS intelligence powered by Cisco Talos® .
Threat Protection	Snort 3 NGIPS engine, Cisco Secure Endpoint (AMP), dynamic URL filtering, and OpenAppID custom detectors.
Central Management	Managed centrally via Cisco Secure Firewall Management Center (FMC) or Cisco Defense Orchestrator (CDO).

POWER SUPPLY & ENVIRONMENTAL SPECIFICATIONS (AC MODE)

AC Power Supply Specifications • Power Modules: 2 x Dual AC Power Supply Modules (1+1 Redundant) • Input Voltage Range: 200 to 240V AC (High-line recommended) • Max Output Power: Up to 2500W per PSU • Frequency: 50 to 60 Hz	Physical & Cooling Specifications • Dimensions (H x W x D): 5.25 x 17.5 x 30.0 in (3RU chassis) • Cooling: 4 x Hot-swappable fan modules (Front-to-back airflow) • Compliance: NEBS (Network Equipment Building System) ready
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LICENSING & SUBSCRIPTION ARCHITECTURE

Cisco Firepower 9300 uses Smart Licensing. System chassis hardware includes base firewalling and AVC capabilities. Advanced threat protection requires subscriptions per Security Module:

License Tier	Included Security Functionality
Base License	Stateful Firewall inspection, AVC, IP/URL Site-to-Site VPN, Multi-Instance, and Chassis Clustering.
Threat License (T)	Snort 3 Next-Generation Intrusion Prevention System (NGIPS) and Cisco Talos threat feeds.
Malware License (AMP)	Cisco Secure Endpoint (AMP) for network sandboxing, file trajectory, and malware containment.
URL Filtering (URL)	Reputation and category-based URL filtering across hundreds of millions of domain URLs.

ORDERING INFORMATION (CHASSIS, MODULES & AC PSUS)

- **FPR-C9300-AC:** Cisco Firepower 9300 AC Powered Chassis (3RU), includes Supervisor.
- **FPR9K-SM-56:** Firepower 9300 Security Module (56 Cores CPU, 256GB DRAM).
- **FPR9K-SM-48:** Firepower 9300 Security Module (48 Cores CPU, 256GB DRAM).
- **FPR9K-NM-2X100G:** Firepower 2-port 100Gbps QSFP28 Network Module.
- **FPR9K-NM-4X40G:** Firepower 4-port 40Gbps QSFP+ Network Module.
- **FPR9K-PWR-AC-2500W:** Firepower 9300 AC 2500W Power Supply Module.