

Cisco Firepower 4125

Enterprise Next-Generation Firewall (NGFW)

Product Data Sheet
SKU: FPR4125-NGFW-K9

The **Cisco Firepower 4125 (FPR4125-NGFW-K9)** is a high-density, enterprise-class 1RU security platform engineered for data centers, high-capacity internet edges, and service provider environments. Offering 45 Gbps of NGFW threat inspection throughput, 192 GB RAM, and dual redundant 1100W AC power supplies, it delivers exceptional scale, hardware-accelerated crypto/decryption, and carrier-grade reliability.

KEY VALUE HIGHLIGHTS

45 Gbps Threat Protection

Delivers up to 45 Gbps of combined Firewall, AVC, and Next-Generation IPS inspection performance under full load.

Dual Redundant Power

Comes standard with dual hot-swappable 1100W AC power supply units (1+1) and 6 hot-swappable cooling fans.

On-Chassis & Modular Ports

Features 8 fixed 1/10G SFP+ ports on-chassis, plus 2 Network Module (NetMod) slots supporting up to 100GE QSFP28 interfaces.

Massive Session Capacity

Supports up to 25 million concurrent connections with AVC and 269,000 new connections per second for enterprise traffic scale.

PERFORMANCE & CAPACITY SPECIFICATIONS

Parameter	Specification Standard
FW + AVC Throughput (1024B)	45 Gbps
FW + AVC + NGIPS Throughput (1024B)	45 Gbps
NGIPS Throughput (Standalone)	45 Gbps
IPSec VPN Throughput (1024B TCP)	19 Gbps
TLS / SSL Decryption (Hardware Accelerated)	8.5 Gbps
Concurrent Sessions (with AVC)	25,000,000 (25 Million)
New Connections / Second (with AVC)	269,000
Maximum VPN Peers	20,000 Site-to-Site / Remote Access

HARDWARE ARCHITECTURE & INTERFACES

- On-Chassis Data Ports:** 8 x 1/10 Gigabit Ethernet SFP+ fixed ports.
- Network Module Bays:** 2 x NetMod expansion bays (Supports 1/10/40/100G & Hardware Bypass modules).
- Maximum Port Density:** Up to 4 x 100GE (QSFP28), 24 x 10GE (SFP+), or 8 x 40GE (QSFP+) ports.
- Integrated Management:** 1 x 1G Ethernet SFP management port, 1 x RJ-45 Serial Console, 1 x USB 2.0.
- System Memory & Storage:** 192 GB RAM and integrated 800 GB SSD storage.
- Form Factor & Chassis:** 1RU (Rack Unit), fits standard 19-inch equipment racks.

SOFTWARE FEATURES & CAPABILITIES

Feature Area	Capabilities & Descriptions
Operating Systems	Supports Cisco Secure Firewall Threat Defense (FTD) or Cisco ASA Software .
Multi-Instance Support	Hardware multi-instance capability to run distinct isolated firewall containers on one unit.
High Availability & Clustering	Active/Standby, Active/Active HA, and multi-unit chassis clustering up to 16 nodes.
Threat Intelligence	Real-time threat feed integration from Cisco Talos® dynamic global intelligence.
Advanced Threat Prevention	Snort 3 Next-Gen IPS engine, Cisco Secure Endpoint (AMP), and Category/Reputation URL Filtering.
Central Management	Managed centrally via Cisco Secure Firewall Management Center (FMC) or Cisco Defense Orchestrator (CDO).

PHYSICAL, POWER & ENVIRONMENTAL SPECIFICATIONS

Dimensions & Weight • Dimensions (H x W x D): 1.75 x 16.89 x 29.7 in (4.4 x 42.9 x 75.4 cm) • Form Factor: 1RU • System Weight: 39.4 lbs (17.87 kg) with dual PSUs and NetMods	Power Supplies & Cooling • Power Configuration: Dual 1100W AC Redundant Power Supplies (1+1) • Input Voltage: 100 to 240V AC (13A max) • Fans: 6 x Hot-swappable fan modules for system cooling
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LICENSING & FEATURE SUBSCRIPTIONS

Cisco Secure Firewall 4100 Series uses Smart Licensing. Base appliance hardware includes Stateful Firewall and Application Visibility & Control (AVC). Advanced services require feature subscriptions:

License Tier	Included Security Functionality
Base License	Stateful Firewall inspection, AVC, IP/URL Site-to-Site VPN, Multi-Instance, and HA Clustering.
Threat License (T)	Snort 3 Next-Generation Intrusion Prevention System (NGIPS) and Cisco Talos security feed updates.
Malware License (AMP)	Cisco Secure Endpoint (AMP) for network sandboxing, file trajectory, and malware blocking.
URL Filtering (URL)	Reputation and category-based URL filtering covering hundreds of millions of web domains.

ORDERING INFORMATION & EXPANSION MODULES

- **FPR4125-NGFW-K9:** Cisco Firepower 4125 NGFW Appliance, 1RU, 8 x SFP+ ports, Dual 1100W AC PSUs.
- **FPR4K-NM-8X10G:** 8-port 10-Gbps SFP+ Network Module.
- **FPR4K-NM-4X40G:** 4-port 40-Gbps QSFP+ Network Module.
- **FPR4K-NM-2X100G:** 2-port 100-Gbps QSFP28 Network Module.
- **FPR4K-NM-8X1G-F:** 8-port 1-Gbps Copper Hardware Bypass (Fail-to-Wire) Network Module.
- **L-FPR4125T-TMC=:** Cisco FPR4125 Threat, Malware, and URL Filtering Subscription License.