

Cisco Firepower 4145

High-End Enterprise Next-Generation Firewall (NGFW)

Product Data Sheet
SKU: FPR4145-NGFW-K9

The **Cisco Firepower 4145 (FPR4145-NGFW-K9)** represents the top-tier performance class in the Firepower 4100 Series 1RU security platforms. Built specifically for high-throughput data centers, campus backbones, and service providers, it delivers up to 53 Gbps of NGFW threat inspection, 55 Gbps NGIPS throughput, 10 Gbps TLS hardware decryption, and capacity for 30 million concurrent connections.

KEY VALUE HIGHLIGHTS

53 Gbps Threat Inspection

Delivers exceptional 53 Gbps NGFW (FW+AVC+IPS) throughput for demanding enterprise data center workloads.

Hardware Decryption Acceleration

Dedicated cryptographic hardware acceleration handles up to 10 Gbps of TLS / SSL decrypted traffic.

High-Density Modular Expansion

Includes 8 fixed 1/10G SFP+ ports plus 2 Network Module (NetMod) slots supporting up to 100GE QSFP28 connectivity.

Carrier-Grade Scale

Supports 30 million concurrent sessions and 365,000 new connections per second with full AVC threat monitoring.

PERFORMANCE & CAPACITY SPECIFICATIONS

Parameter	Specification Standard
FW + AVC Throughput (1024B)	53 Gbps
FW + AVC + NGIPS Throughput (1024B)	53 Gbps
NGIPS Throughput (Standalone)	55 Gbps
IPSec VPN Throughput (1024B TCP w/ Fastpath)	24 Gbps
TLS / SSL Decryption (Hardware Accelerated)	10 Gbps
Concurrent Sessions (with AVC)	30,000,000 (30 Million)
New Connections / Second (with AVC)	365,000
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:** High-capacity RAM architecture 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 logical instances on one unit.
High Availability & Clustering	Active/Standby, Active/Active HA, and chassis clustering capability up to 6 nodes (FTD) / 16 nodes (ASA).
Threat Intelligence	Real-time threat feed integration from Cisco Talos® dynamic global security research team.
Advanced Threat Prevention	Snort 3 Next-Gen IPS engine, Cisco Secure Endpoint (AMP) file sandboxing, and 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

- **FPR4145-NGFW-K9:** Cisco Firepower 4145 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-FPR4145T-TMC=:** Cisco FPR4145 Threat, Malware, and URL Filtering Subscription License.