

Cisco Firepower 2140

Flagship Enterprise NGFW Specification Sheet | Model: FPR2140-NGFW-K9

1RU HIGH-DENSITY
MODULAR

Product Overview: Cisco Firepower 2140 is the flagship Next-Generation Firewall of the Firepower 2100 Series, engineered for high-density enterprise edges, data centers, and campus core deployments. Offering up to 8.5 Gbps threat protection, modular network flexibility, dual 400W hot-swappable power supplies, and up to 3 million concurrent connections, it delivers ultra-low latency threat inspection under demanding enterprise traffic loads.

KEY PERFORMANCE BENCHMARKS

NGFW / THREAT THROUGHPUT

8.5 Gbps

Firewall, AVC, and NGIPS threat inspection

FIREWALL THROUGHPUT (RAW)

20.0 Gbps

Stateful inspection performance (ASA Mode)

CONCURRENT SESSIONS

3,000,000

Supports 3 Million active connection states

MAX IPSEC VPN TUNNELS

10,000 Peers

Maximum remote user and site-to-site capacity

PERFORMANCE & SCALE METRICS

Feature Metric	Specification Value
IPsec VPN Throughput (Fastpath)	3.2 Gbps (2.0 Gbps L2L Standard)
TLS / SSL Decryption Throughput	1.4 Gbps
New Connections Per Second (CPS - FTD)	40,000 connections/sec
New Connections Per Second (CPS - ASA)	75,000 connections/sec
High Availability & Redundancy	Active/Standby, Active/Active HA, Dual Redundant Power
Application Visibility & Control (AVC)	Standard (4,000+ app signatures & OpenAppID support)

SUPPORTED OPERATING SYSTEMS

- Cisco Firepower Threat Defense (FTD):** Threat-focused unified platform combining stateful firewalling, NGIPS, Application Control, AMP malware defense, and URL filtering under a single OS.
- Cisco Adaptive Security Appliance (ASA):** Supports conversion to traditional ASA code for enterprise network routing and stateful access control integration.

HARDWARE SPECIFICATIONS & EXPANSION

Hardware Component	Specification Details
Fixed Copper Interfaces	12 x 1GbE RJ-45 (10M/100M/1GBASE-T)
Fixed Optical Interfaces	4 x 10GbE SFP+ (1G/10G Fiber Ports)
Network Module (NM) Bays	1 Expansion Slot (Up to 24 Total Ethernet Ports)
Supported Expansion Modules	8x 10G SFP+ Network Module (FPR-NM-8X10G)
Dedicated Management Port	1 x 10M/100M/1GBASE-T Ethernet (RJ-45)
Console Ports & USB	1 x RJ-45 Serial Console + 1 x USB 2.0 Type-A
Internal Storage	1x 200 GB SSD + 1x Spare Slot for Malware Storage Pack (MSP)

PHYSICAL, POWER & ENVIRONMENTAL SPECS

Parameter	Specification
Dimensions (H x W x D)	1.73 x 16.90 x 19.76 in (4.4 x 42.9 x 50.2 cm) – 1RU
System Weight	9.53 kg (21.0 lbs) fully configured
Power Supplies	Dual 400W AC Power Supplies (1+1 Redundant Hot-Swappable)
Cooling System	1 x Hot-Swappable Fan Module (4 Integrated Fans; Front-to-Rear)
Acoustic Noise Level	56 dBA @ 25°C (77 dBA max performance)
Operating Temperature	0°C to 40°C (32°F to 104°F)

MANAGEMENT & LICENSING SUBSCRIPTIONS

CENTRALIZED MANAGEMENT

- **FMC:** Firepower Management Center (On-Premises)
- **FDM:** Firepower Device Manager (Local Web GUI)
- **CDO:** Cisco Defense Orchestrator (Cloud)

SMART SECURITY SUBSCRIPTIONS

- **Threat License (T):** NGIPS & Application Control
- **URL Filtering (URL):** Web Reputation & Categories
- **AMP for Networks (AMP):** Malware Sandboxing