

Cisco Secure Firewall 3110

Mid-Range Enterprise NGFW Datasheet | Model: FPR3110-NGFW-K9

1RU HYBRID MULTI-GIG

Product Overview: Cisco Secure Firewall 3110 (Firepower 3100 Series) is built for modern hybrid enterprise networks, data center edges, and large corporate campuses. Powered by dedicated hardware crypto acceleration, FPGA-based flow offloading, and dual hot-swappable power supplies, it delivers up to 17 Gbps threat inspection and seamless 10G optical connectivity.

KEY PERFORMANCE BENCHMARKS

FW + AVC + NGIPS THROUGHPUT

17.0 Gbps

Full threat prevention inspection (FTD Mode)

FIREWALL THROUGHPUT (RAW ASA)

18.0 Gbps

Stateful firewall inspection rate

CONCURRENT SESSIONS

2,000,000

Supports 2 Million active concurrent sessions

MAX IPSEC VPN TUNNELS

3,000 Peers

High-speed site-to-site & remote access scale

PERFORMANCE & ACCELERATION METRICS

Feature Metric	Specification Value
IPsec VPN Throughput (FTD 1024B)	8.0 Gbps (Up to 11.0 Gbps w/ Hardware Fastpath Offload)
TLS 1.3 / SSL Decryption Throughput	4.8 Gbps
New Connections Per Second (CPS - FTD)	130,000 connections/sec
New Connections Per Second (CPS - ASA)	300,000 connections/sec
Chassis Clustering Support	Up to 8 Units clustered for scale & resilience
High Availability (HA)	Active/Standby and Active/Active Stateful Redundancy

SUPPORTED OPERATING SYSTEMS

- Cisco Firepower Threat Defense (FTD):** Next-generation software platform integrating stateful firewalling, Snort 3 NGIPS, Application Control, AMP malware detection, and URL filtering into a unified image.
- Cisco Adaptive Security Appliance (ASA):** Supports native enterprise ASA software mode for high-throughput stateful inspection and L3 routing integrations.

HARDWARE ARCHITECTURE & MODULAR EXPANSION

Hardware Element	Specification Details
Fixed Copper Interfaces	8 x 10M/100M/1GBASE-T RJ-45 Ports
Fixed Optical Interfaces	8 x 1/10 Gigabit SFP+ Fiber Ports
Network Module (NM) Bays	1 Expansion Bay (Supports 8x 1/10G SFP+ Network Module)
Maximum Ethernet Interfaces	Up to 24 total Ethernet Ports (8x 1G, 8x 10G SFP+, 8x NM SFP+)
Management & Console Ports	1 x 1/10G SFP Management, 1 x RJ-45 Serial Console, 1 x USB 3.0
Internal System Storage	1x 900 GB NVMe SSD + 1x Spare Slot
Form Factor	1RU Standard Rack-Mount (4-Post Rail Kit Included)

PHYSICAL, POWER & ENVIRONMENTAL SPECS

Parameter	Specification
Dimensions (H x W x D)	1.75 x 17.0 x 20.0 in (4.4 x 43.3 x 50.8 cm) – 1RU
System Weight	10.5 kg (23.0 lbs) with PSUs and Fan Modules
Power Supplies	Single 400W AC included (Supports Dual 1+1 Redundant 400W AC/DC)
Power Efficiency & Voltage	100V to 240V AC (>89% efficiency at 50% load)
Cooling Modules	2 x Hot-Swappable Fan Modules (2 fans each; Front-to-Rear Airflow)
Acoustic Noise Level	65 dBA @ 25°C (74 dBA max performance)
Operating Temperature	0°C to 40°C (32°F to 104°F)

MANAGEMENT & SMART LICENSING

MANAGEMENT PLATFORMS

- **FMC:** Firewall Management Center (On-Premises)
- **CDO:** Cisco Defense Orchestrator (Cloud Unified GUI)
- **CSM:** Cisco Security Manager (For ASA deployments)

SMART LICENSE SUBSCRIPTIONS

- **Threat (T):** Snort 3 NGIPS & Application Control
- **URL Filtering (URL):** Category & Web Intelligence
- **AMP for Networks:** Cisco Secure Malware Analytics