

FPR4220-NGFW-K9

1RU Secure Firewall 4225 (the official platform for the FPR4220-series SKU); 8x 1/10/25G SFP28 + 2 NM bays; 80 Gbps FW+AVC, 80 Gbps IPsec, 15 multi-instance.

Cisco Secure Firewall 4225 Appliance - Threat Defense (mid 4200)

Note on ordering: the Cisco official PID for the mid 4200 Series model is FPR4225-NGFW-K9; the FPR4220-NGFW-K9 is a non-official ordering suffix used by some third-party resellers. The platform itself delivers 80 Gbps FW+AVC, 80 Gbps IPsec VPN, 30 million concurrent sessions (FTD), 600,000 new connections/sec, and supports up to 15 FTD multi-instance virtual contexts. The chassis has eight fixed 1/10/25G SFP28 ports plus 2 hot-swap network module bays (up to 2x400G QSFP-DD total).

Specification	Value
Series / role	Cisco Secure Firewall 4225 (mid 4200); official platform for FPR4220-series SKUs
Firewall throughput (FW+AVC, 1024B)	80 Gbps
NGIPS throughput	80 Gbps
IPsec VPN (1024B TCP Fastpath)	80 Gbps (FTD)
New connections / sec (FTD)	600,000
Concurrent sessions (FTD / ASA)	30M / 90M
Max VPN peers	25,000
TLS throughput	30 Gbps
Multi-instance (FTD)	15 instances
DRAM / SSD	512 GB / 2x 1.8 TB EDSFF NVMe RAID1
Power supply	2x 1900W AC (1+1 redundant) by default

- Enterprise-class 1RU Secure Firewall 4215 (the official platform for FPR4210-series SKUs).
- 65 Gbps FW+AVC, 45 Gbps IPsec, 15M concurrent sessions, 350K new conn/sec.
- Eight fixed 1/10/25G SFP28 ports plus 2 hot-swap NM bays (up to 2x400G QSFP-DD).
- 10 FTD multi-instance virtual contexts; clustering up to 16 chassis.
- Dual 1.8 TB EDSFF NVMe SSD in RAID1 factory-config.
- NEBS Level-3 compliance for service-provider environments.

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New connections / sec (FTD)	600,000
Concurrent sessions (FTD / ASA)	30M / 90M
Max VPN peers	25,000
TLS throughput	30 Gbps
Multi-instance (FTD)	15 instances
Clustering	Up to 16 chassis

The platform runs Cisco Secure Firewall Threat Defense (FTD) image by default with Snort 3 detection engine. The capabilities below are supported through the FTD software.

Capability	Description
Stateful firewall	Layer 3/4 stateful inspection with zones, interfaces, and ACLs
NGFW / Application visibility	Application Visibility and Control (AVC) with NBAR2/L7 inspection
Intrusion prevention (IPS)	Cisco Talos-backed signatures; Snort 3 with custom rule sets
URL filtering	Categorical and reputation-based URL filtering (Cisco Talos cloud)
Advanced Malware Protection	Cisco AMP / AMP Threat Grid sandbox integration
TLS / SSL inspection	Inline decryption for threat inspection (where licensed)
Cisco Umbrella integration	DNS-layer security via Cisco Umbrella SIG (where licensed)
DNS layer security	DNS-layer policy and threat enforcement
VPN (site-to-site, RA)	IPsec / IKEv2 / DTLS; hub-spoke and remote-access VPN
High availability	Active/active and active/standby failover pairs (where supported)
Clustering	Multi-chassis clustering for carrier-class scale (where supported)
Management planes	FMC (central), CDO (cloud), local management (platform capable)

The platform runs Cisco Secure Firewall Threat Defense (FTD) software. Key software capabilities and their operational role are summarized below.

Feature	Role
Snort 3 engine	Multi-threaded next-gen IPS with Talos signature feed
Application Visibility (AVC)	L7 application recognition and policy enforcement
URL filtering	Category / reputation based URL control

Feature	Role
Advanced Malware Protection (AMP)	File / malware inspection and threat grid sandboxing
TLS / SSL inspection	Inline decryption for encrypted-threat visibility
Stateful firewall	Zone-based stateful inspection and NAT
DNS security (Umbrella)	DNS-layer policy via Cisco Umbrella integration
Multi-instance (VDC)	Virtual firewall instances on one chassis (where supported)
Management	FMC central, CDO cloud, REST API / NETCONF-YANG
Reporting	FMC dashboards, syslog / CEF to SIEM
Auto-update	Talos signature and rule auto-update
Policy automation	REST API and templates for orchestration

Cisco Secure Firewall (FTD) platforms support several deployment modes to fit the network topology. The mode is chosen at initial configuration and managed centrally via FMC or CDO.

Mode / Configuration	Description
Routed firewall	Layer-3 routed interfaces with zones and inter-zone policies
Transparent (bump-in-the-wire)	Layer-2 bridge groups for inline insertion without renumbering
Inline IPS / IDS	Inline pair or passive IDS using the IPS interfaces (Snort 3)
Multi-instance	Virtual firewalls on one appliance (FTD multi-instance, where supported)
High availability	Active/standby or active/active stateful failover pairs
Clustering	Multi-chassis clustering up to 16 chassis (where supported)
Zero-touch deployment	PnP / ZTP enrollment via Cisco Defense Orchestrator
VPN	Site-to-site, remote-access (RA) VPN, hub-spoke topologies
Interface redundancy	Redundant / EtherChannel interface groups
Fail-to-wire	Inline security modules with fail-open bypass (where supported)
AVC / NBAR	Application-aware policies and per-application visibility
TLS decryption	Inline SSL/TLS inspection policies (where licensed)

Cisco Secure Firewall platforms support a rich set of operational and high-availability features to keep threat defense active and policy-driven in production deployments.

Capability	Description
Active/standby failover	Stateful failover with configuration and session sync
Active/active failover	Active/active failover for data center deployments (where supported)
Multi-chassis clustering	Up to 16 chassis cluster for carrier-class scale (where supported)
Zero-touch provisioning	PnP and ZTP through the Cisco Defense Orchestrator

Capability	Description
Smart licensing	Cisco Smart Licensing with PnP enrollment and offline reservation
REST API	Full REST API for automation and policy orchestration
NETCONF/YANG	NETCONF / YANG models for FTD configuration and telemetry
Syslog / SIEM	Syslog export and CEF-format delivery to SIEM collectors
Threat intelligence	Cisco Talos automatic signature feed; Snort 3 rule updates
Sandboxing	Cisco AMP Threat Grid sandbox integration
Encrypted traffic analytics	ETA on supported platforms (where licensed)
Backup / restore	FMC-managed configuration and policy backup / restore

The chassis supports a range of fixed and modular network interfaces through the available network-module bays for FPR4220-NGFW-K9.

Module / Accessory	Description
Network modules (1G/10G/25G)	NM with 8x1/10/25G SFP+ ports (platform dependent)
Network modules (40G/100G)	NM with 4x40G QSFP+ or 2x100G QSFP28 ports (platform dependent)
Fail-to-wire (FTW) modules	FTW 8x1G copper or 6x10G/25G SR/LR fiber network modules
SFP / SFP+ optics	GLC-T (1G copper), GLC-SX-MMD / -LX-SMD (1G SX/LX); SFP-10G-SR/LR
SFP28 25G optics	SFP-25G-SR-S, SFP-25G-LR-S (where 25G ports available)
QSFP / QSFP28 optics	QSFP-40G-SR4/LR4; QSFP-100G-SR4-S / -LR4-S (where 100G available)
Power supply	AC 400W / 1900W PSU (platform dependent); DC options where available
Spare fan tray	Hot-swappable fan module (FRU) for field replacement
Console / management	RJ-45 console cable included for local management
Rack-mount kit	Standard 19-in four-post EIA-310-D rack-mount brackets included
Cisco Defense Orchestrator	Cloud-based management subscription for centralized policy
FMC license	Firewall Management Center feature license tier (per-platform)

The platform complies with the following interoperability, safety and environmental standards. Compliance is verified by independent testing laboratories.

Category	Standard
IPsec / VPN	RFC 4303 ESP, RFC 7296 IKEv2, RFC 5246 TLS 1.2, RFC 8446 TLS 1.3, AES-GCM
IP routing	RFC 1812 IPv4, RFC 4291 IPv6; OSPFv2/v3, IS-IS, BGP-4, MP-BGP, static
High availability	Active/active and active/standby failover; multi-chassis clustering
Threat intelligence	Cisco Talos signature feeds and sandbox integration

Category	Standard
DNS / URL filtering	Cisco Umbrella DNS-layer; URL reputation feed (Talos)
Management	REST API, NETCONF/YANG (FTD), SNMPv2c/v3, FMC/CDO central management
Quality of Service	802.1p, DSCP (RFC 2474), RFC 2597/2598 PHB
Safety	UL/CSA/IEC/EN 62368-1, IEC 60950-1, AS/NZS 62368-1, GB4943
EMC / EMI	FCC 47 CFR Part 15 Class A, EN 55032/CISPR 32, EN 55024/55035, EN 300 386
Environmental	RoHS 2011/65/EU, WEEE 2012/19/EU; NEBS Level-3 where indicated

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