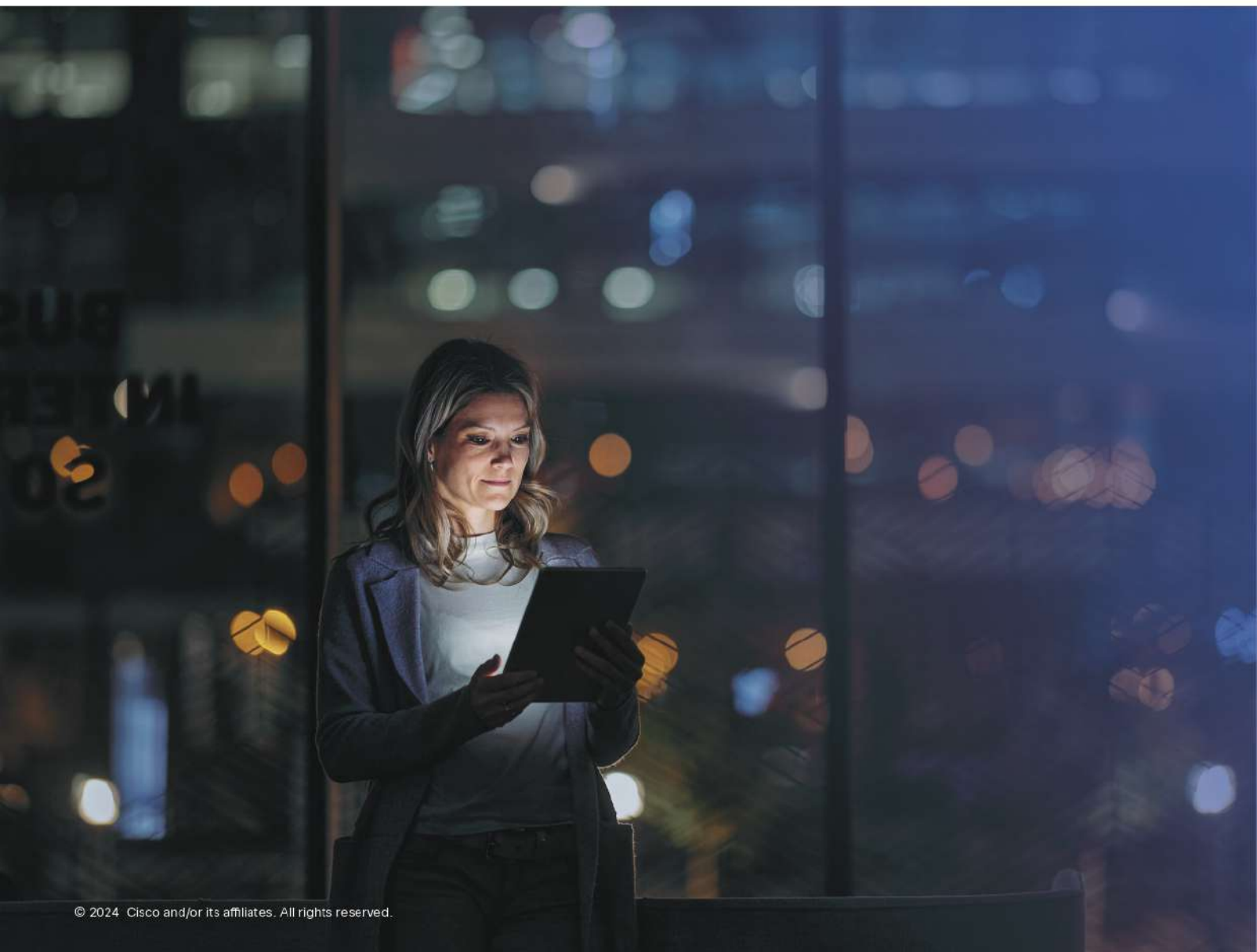


Cisco Secure Firewall 4200 Series

Enterprise Firewall | Next Generation Firewall | Next Generation IPS



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Cisco Secure Firewall 4200 Series appliances

The Cisco Secure Firewall 4200 Series is a high-end firewall designed to meet the security requirements of large enterprises, datacenters, and service providers. It is available in three different performance models, offering a wide range of options while providing superior threat defense within a compact 1 RU form factor. Key features and benefits of the appliance include:

- Cryptographic acceleration architecture preserves performance with SSL and VPN decryption
- Save space and energy with 1RU form factor
- Future-proof your investment with 8x node cluster
- Flexibility of 2x interface module bays for additional interface support
- Customize and future-proof investment up to 200G interfaces
- 2x SSD for event storage and malware analysis
- Uptime/resilience with dual management interfaces
- Fail-to-wire network modules, further enhancing its reliability and fault tolerance

These platforms can be deployed in both firewall and dedicated IPS modes, providing versatile deployment options. For inline sets and passive interfaces, the 4200 Series supports Q-in-Q (stacked VLAN) with the ability to handle up to two 802.1Q headers in a packet.

Model overview



Cisco Secure Firewall 4200 Series summary:

| Model | Firewall | NGFW | IPS | Interfaces | Optional Interfaces |
|-------|----------|----------|----------|---------------------|--------------------------------|
| 4215 | 90 Gbps | 65 Gbps | 65 Gbps | 8 x SFP+ on-chassis | 2 x NM's: 1/10/40/100G, FTW |
| 4225 | 95 Gbps | 80 Gbps | 80 Gbps | 8 x SFP+ on-chassis | 2 x NM's: 1/10/40/100G, FTW |
| 4245 | 180 Gbps | 140 Gbps | 140 Gbps | 8 x SFP+ on-chassis | 2 x NM's: 1/10/40/100G, FTW |

Detailed performance specifications and feature highlights

Table 1. Performance specifications and feature highlights for Cisco Secure Firewall 4200 with the Cisco Secure Firewall Threat Defense (FTD) image

| Features | 4215 | 4225 | 4245 |
|--|------------|------------|------------|
| Throughput: FW + AVC (1024B) | 65 Gbps | 80 Gbps | 140 Gbps |
| Throughput: FW + AVC + IPS (1024B) | 65 Gbps | 80 Gbps | 140 Gbps |
| Maximum concurrent sessions, with AVC | 15 Million | 30 Million | 60 Million |
| New Connections Per Second with, AVC | 350 K | 600 K | 800 K |
| TLS (Hardware Decryption) ¹ | 20 Gbps | 30 Gbps | 45 Gbps |

| Features | 4215 | 4225 | 4245 |
|---|--|---------|----------|
| Throughput: NGIPS (1024B) | 65 Gbps | 80 Gbps | 140 Gbps |
| IPSec VPN Throughput (1024B TCP w/Fastpath) | 45 Gbps | 80 Gbps | 140 Gbps |
| Maximum VPN Peers | 20,000 | 25,000 | 30,000 |
| Centralized Management | Centralized configuration, logging, monitoring, and reporting are performed by the Firewall Management Center or alternatively in the cloud with Cisco Defense Orchestrator | | |
| Application Visibility and Control (AVC) | Standard, Supporting more than 4000 applications, as well as geolocation, users, and websites | | |
| AVC: OpenAppID support for custom, open source, application detectors | Standard | | |
| Cisco Security Intelligence | Standard with IP, URL, and DNS Threat Intelligence | | |
| Cisco Secure IPS | Available; can passively detect endpoints and infrastructure for threat correlation and Indicators of Compromise (IOC) intelligence | | |
| Cisco Malware Defense | Available; enables detection, blocking, tracking, analysis, and containment of targeted and persistent malware, addressing the attack continuum both during and after attacks. Integrated threat correlation with CISCO Secure Endpoint is also optionally available | | |
| Cisco Secure Malware Analytics | Available | | |

¹ Throughput measured with 50% TLS 1.2 traffic with AES256-SHA with RSA 2048B keys.

| Features | 4215 | 4225 | 4245 |
|---|--|------|------|
| URL Filtering: Number of Categories | More than 80 | | |
| URL Filtering: Number of URLs categorized | More than 280 million | | |
| Automated Threat Feed and IPS signature updates | Yes: class-leading Collective Security Intelligence (CSI) from the Cisco Talos Group | | |
| Third-party and open-source ecosystem | Open API for integrations with third-party products; Snort® and OpenAppID community resources for new and specific threats | | |
| High Availability and Clustering | Active/active, Active/standby. Cisco Secure Firewall 4200 Series allows clustering of up to 8 chassis | | |
| Cisco Trust Anchor Technologies | Secure Firewall 4200 Series platforms include Trust Anchor Technologies for supply chain and software image assurance. Please see the section below for additional details | | |

Note: Performance will vary depending on features activated, network traffic protocol mix, and packet size characteristics. Performance is subject to change with new software releases. Consult your Cisco representative for detailed sizing guidance.

Table 2. ASA Performance and capabilities on Cisco Secure Firewall 4200 appliances

| Features | 4215 | 4225 | 4245 |
|--|---------|---------|----------|
| Stateful inspection firewall throughput ¹ | 90 Gbps | 95 Gbps | 180 Gbps |
| Stateful inspection firewall throughput (multiprotocol) ² | 65 Gbps | 85 Gbps | 100 Gbps |

¹ Throughput measured with 1500B User Datagram Protocol (UDP) traffic measured under ideal test conditions.

² “Multiprotocol” refers to a traffic profile consisting primarily of TCP-based protocols and applications like HTTP, SMTP, FTP, IMAPv4, BitTorrent, and DNS.

| Features | 4215 | 4225 | 4245 |
|--|---|----------------------------------|----------------------------------|
| Concurrent firewall connections | 40 Million | 80 Million | 80 Million |
| New connections per second | 1.4 Million | 1.7 Million | 2.0 Million |
| Max. IPSec VPN throughput (450 Byte UDP L2L test, ASA) | 50 Gbps | 60 Gbps | 70 Gbps |
| Maximum VPN Peers | 20,000 | 25,000 | 30,000 |
| Security contexts (included; maximum) | 2; 250 | 2; 250 | 2; 250 |
| High Availability | Active/active and active/standby | Active/active and active/standby | Active/active and active/standby |
| Clustering | 8 | 8 | 8 |
| Scalability | VPN Load Balancing | | |
| Centralized management | Centralized configuration, logging, monitoring, and reporting are performed by Cisco Security Manager or alternatively in the cloud with Cisco Defense Orchestrator | | |
| Adaptive Security Device Manager | Web-based, local management for small-scale deployments | | |

Hardware specifications

Table 3. Cisco Secure Firewall 4200 Series hardware specifications

| Features | 4215 | 4225 | 4245 |
|--------------------------|---|------|------|
| Dimensions (H x W x D) | 1.73 x 16.89 x 32.0 inches (4.39 x 42.9 x 81.28 cm) | | |
| Form factor (rack units) | 1RU | | |

| Features | 4215 | 4225 | 4245 |
|--|---|------|------|
| Fixed Ports | 8 x 1/10/25 Gigabit Ethernet ports (SFP28) | | |
| Integrated Network Management Ports | 2 x 1/10/25 Gigabit Ethernet ports (SFP28) | | |
| Network modules | <ul style="list-style-type: none"> 8-port 1Gbps copper, FTW (fail to wire) Network Module <ul style="list-style-type: none"> Ports that are not configured as FTW can be used as regular 1 Gb copper ports 8 x 1/10 Gigabit Ethernet Small Form-Factor Pluggable (SFP+) network modules 8 x 1/10/25 Gigabit Ethernet Small Form-Factor Pluggable (SFP28) network modules 4 x 40 Gigabit Ethernet Quad SFP+ network modules 4 x 40/100/200 Gigabit Ethernet Quad SFP28 (QSFP28) network modules 2 x 100G Gigabit Ethernet QSFP SFP28 network modules 6-port 10Gbps SR Fiber FTW (fail to wire) Network Module 6-port 10Gbps LR Fiber FTW (fail to wire) Network Module 6-port 25Gbps LR Fiber FTW (fail to wire) Network Module 6-port 25Gbps SR Fiber FTW (fail to wire) Network Module | | |
| Maximum number of interfaces | Up to 24 x 10 Gigabit Ethernet (SFP+) interfaces; up to 8 x 25 Gigabit Ethernet (SFP28) interfaces with 2 network modules; up to 8 x 40 Gigabit Ethernet (QSFP+) interfaces with 2 network modules; up to 24 x 1 Gigabit Ethernet ports (SFP) with 2 network modules and fixed ports; up to 8 x 100 Gigabit Ethernet (QSFP28) interfaces with 2 network modules | | |
| Serial port | 1 x RJ-45 console | | |
| USB | 1 x USB 2.0 | | |

| Features | | 4215 | 4225 | 4245 |
|----------------|--------------------------|--|--|--|
| Storage | | 1.8 TB x 2 | | |
| Power supplies | Configuration | Dual: 1900W for 220 AC, 1200W for 110 AC | Dual: 1900W for 220 AC, 1200W for 110 AC | Dual: 1900W for 220 AC, 1200W for 110 AC |
| | AC input voltage | 100 to 120 VAC (low line) or 200 to 240 VAC (high line) | | Only 200 to 240 VAC (high line) |
| | AC maximum input current | 14A, @ 100VAC or @ 200VAC | | |
| | AC maximum Input power | 770W | 870W | 1380W |
| | AC frequency | 50/60 Hz (nominal) | | |
| | AC efficiency | >90% (Platinum) | | |
| | Redundancy | 1+1 | | |
| Fans | | 3 Dual fan modules (FRU). Each module has two fans | | |
| Noise | | Sound Pressure: <=78 dBA (typical), <= 84 dBA (maximum) Sound Power: <=87 dB (typical), <=92 dB (maximum) | | |
| Rack mountable | | Yes, mount rails included (4-post EIA-310-D rack) | | |

| Features | 4215 | | 4225 | | 4245 |
|-----------------------------------|---|----------------------------|----------------------------|---|---|
| Weight | 4215: 43 lbs (19.5 kgs): 2 x power supplies, 2 x NMs, 3 x fan-modules; 33 lbs (15 kgs): no power supplies, no NMs, no fans 4225: 43 lbs (19.5 kgs): 2 x power supplies, 2 x NMs, 3 x fan-modules; 33 lbs (15 kgs): no power supplies, no NMs, no fans 4245: 46 lbs (20.8 kgs): 2 x power supplies, 2 x NMs, 3 x fan-modules; 36 lbs (16.3 kgs): no power supplies, no NMs, no fans | | | | |
| Temperature: Operating | 32 to 104°F (0 to 40°C) | 32 to 104°F (0 to 40°C) | 32 to 104°F (0 to 40°C) | 32 to 104°F (0 to 40°C) or NEBS operation (see below) | 32 to 104°F (0 to 40°C), at sea level |
| Temperature: Nonoperating | -40 to 149°F (-40 to 65°C) | | | | |
| Humidity: Operating | 5 to 95% noncondensing | | | | |
| Humidity: Nonoperating | 5 to 95% noncondensing | | | | |
| Altitude: Operating | 10,000 ft (max) | | 10,000 ft (max) | | 10,000 ft (max) |
| Altitude: Nonoperating | 40,000 ft (max) | | | | |
| NEBS operation (FPR 4215 only) | Operating altitude: 0 to 13,000 ft (3960 m) Operating temperature: Long term: 0 to 45°C, up to 6,000 ft (1829 m) Long term: 0 to 35°C, 6,000 to 13,000 ft (1829 to 3964 m) Short term: -5 to 50°C, up to 6,000 ft (1829 m) | | | | |

¹ Dual power supplies are hot-swappable.

Table 4. Cisco Secure Firewall 4200 Series NEBS, Regulatory, Safety, and EMC Compliance

| Specification | Description |
|-----------------------|--|
| Regulatory compliance | Products comply with CE markings per directives 2004/108/EC and 2006/108/EC |
| Safety | <ul style="list-style-type: none">UL 62368-1CAN/CSA-C22.2 No. 62368-1EN 62368-1IEC 62368-1IEC 60950-1AS/NZS 62368-1GB4943 |
| EMC: Emissions | <ul style="list-style-type: none">FCC 47CFR15 Class AAS/NZS CISPR 32 Class AEN55032/CISPR 32 Class AICES-003 Class AVCCI Class AKS C 9832 Class ACNS-13438 Class AEN61000-3-2 Power Line HarmonicsEN61000-3-3 Voltage Changes, Fluctuations, and Flicker |

| Specification | Description |
|---------------|---|
| EMC: Immunity | <ul style="list-style-type: none">• IEC/EN61000-4-2 Electrostatic Discharge Immunity• IEC/EN61000-4-3 Radiated Immunity• IEC/EN61000-4-4 EFT-B Immunity• IEC/EN61000-4-5 Surge• IEC/EN61000-4-6 Immunity to Conducted Disturbances• IEC/EN61000-4-11 Voltage Dips, Short Interruptions, and Voltage Variations• KS C 9835 |
| EMC: ETSI/EN | <ul style="list-style-type: none">• EN 300 386 Telecommunications Network Equipment (EMC)• EN55032/CISPR 35 Multimedia Equipment (Emissions)• EN55024/CISPR 24 Information Technology Equipment (Immunity)• EN55035/CISPR 35 Multimedia Equipment (Immunity)• EN61000-6-1 Generic Immunity Standard |

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