

Cisco Firepower 2100 Series

Enterprise Firewall
Next Generation Firewall
Next Generation IPS

Contents

| | |
|--|---|
| Cisco Firepower 2100 Series appliances | 3 |
| Model overview | 3 |
| Detailed performance specifications and feature highlights | 3 |
| Hardware specifications | 5 |
| Cisco Capital | 8 |

Cisco Firepower 2100 Series appliances

The Cisco Firepower 2100 Series is a family of four threat-focused NGFW security platforms that deliver business resiliency through superior threat defense. It offers exceptional sustained performance when advanced threat functions are enabled. These platforms uniquely incorporate an innovative dual multicore CPU architecture that optimizes firewall, cryptographic, and threat inspection functions simultaneously. The series' firewall throughput range addresses use cases from the Internet edge to the data center. Network Equipment Building Standards (NEBS)- compliance is supported by the Cisco Firepower 2100 Series platform. The 2100 Series platforms can run either the Cisco ASA Firewall or Cisco Firepower Threat Defense (FTD).

Model overview

Cisco Firepower 2110/2120 Model



Cisco Firepower 2130/2140 Model



Cisco Firepower 2100 series summary:

| Model | Firewall | NGFW | NGIPS | Interfaces | Optional interfaces |
|----------|----------|------|-------|---------------------|---------------------|
| FPR-2110 | 3G | 2.3G | 2.3G | 12 x RJ45, 4 x SFP | N/A |
| FPR-2120 | 6G | 3G | 3G | 12 x RJ45, 4 x SFP | N/A |
| FPR-2130 | 10G | 5G | 5G | 12 x RJ45, 4 x SFP+ | 10G SFP+, 1/10G FTW |
| FPR-2140 | 20G | 9G | 9G | 12 x RJ45, 4 x SFP+ | 10G SFP+, 1/10G FTW |

Detailed performance specifications and feature highlights

Table 1. Performance specifications and feature highlights for firepower 2100 with the Cisco Firepower Threat defense image

| Features | 2110 | 2120 | 2130 | 2140 |
|---------------------------------------|-----------|-------------|-----------|-----------|
| Throughput: FW + AVC (1024B) | 2.3 Gbps | 3 Gbps | 5 Gbps | 9 Gbps |
| Throughput: FW + AVC + IPS (1024B) | 2.3 Gbps | 3 Gbps | 5 Gbps | 9 Gbps |
| Maximum concurrent sessions, with AVC | 1 million | 1.5 million | 2 million | 3 million |
| Maximum new connections per | 14K | 17K | 27K | 57K |

| Features | 2110 | 2120 | 2130 | 2140 |
|---|--|----------|----------|----------|
| second, with AVC | | | | |
| TLS | 365 Mbps | 475 Mbps | 735 Mbps | 1.4 Gbps |
| Throughput: NGIPS (1024B) | 2.3 Gbps | 3 Gbps | 5 Gbps | 9 Gbps |
| IPSec VPN Throughput (1024B TCP w/Fastpath) | 800 Mbps | 1 Gbps | 1.6 Gbps | 3.2 Gbps |
| Maximum VPN Peers | 1500 | 3500 | 7500 | 10,000 |
| Cisco Firepower Device Manager (local management) | Yes | Yes | Yes | Yes |
| Centralized management | Centralized configuration, logging, monitoring, and reporting are performed by the 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 geolocations, 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 Firepower NGIPS | Available; can passively detect endpoints and infrastructure for threat correlation and Indicators of Compromise (IoC) intelligence | | | |
| Cisco AMP for Networks | 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 AMP for Endpoints is also optionally available | | | |
| Cisco AMP Threat Grid sandboxing | Available | | | |
| 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 (https://www.cisco.com/c/en/us/products/security/talos.html) | | | |
| 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/standby | | | |
| Cisco Trust Anchor Technologies | Firepower 2100 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, and 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 Firepower 2100 appliances

| Features | 2110 | 2120 | 2130 | 2140 |
|--|---|----------------------------------|----------------------------------|----------------------------------|
| Stateful inspection firewall throughput ¹ | 3 Gbps | 6 Gbps | 10 Gbps | 20 Gbps |
| Stateful inspection firewall throughput (multiprotocol) ² | 1.5 Gbps | 3 Gbps | 5 Gbps | 10 Gbps |
| Concurrent firewall connections | 1 million | 1.5 million | 2 million | 3 million |
| Firewall latency (UDP 64B microseconds) | - | - | - | - |
| New connections per second | 18000 | 28000 | 40000 | 75000 |
| IPsec VPN throughput (450B UDP L2L test) | 500 Mbps | 700 Mbps | 1 Gbps | 2 Gbps |
| Maximum VPN Peers | 1500 | 3500 | 7500 | 10,000 |
| Security contexts (included; maximum) | 2; 25 | 2; 25 | 2; 30 | 2; 40 |
| High availability | Active/active and active/standby | Active/active and active/standby | Active/active and active/standby | Active/active and active/standby |
| Clustering | - | | | |
| 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 | | | |

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.

³ In unclustered configuration.

Performance testing methodologies [LINK](#)

Hardware specifications

Table 3. Cisco Firepower 2100 Series hardware specifications

| Features | Cisco Firepower Model | | | |
|--------------------------|---|---|---|---|
| | 2110 | 2120 | 2130 | 2140 |
| Dimensions (H x W x D) | 1.73 x 16.90 x 19.76 in. (4.4 x 42.9 x 50.2 cm) | 1.73 x 16.90 x 19.76 in. (4.4 x 42.9 x 50.2 cm) | 1.73 x 16.90 x 19.76 in. (4.4 x 42.9 x 50.2 cm) | 1.73 x 16.90 x 19.76 in. (4.4 x 42.9 x 50.2 cm) |
| Form factor (rack units) | 1RU | 1RU | 1RU | 1RU |

| Features | Cisco Firepower Model | | | |
|---|---|---|---|---|
| Integrated I/O | 12 x 10M/100M/1GBASE-T Ethernet interfaces (RJ-45), 4 x 1 Gigabit (SFP) Ethernet interfaces | 12 x 10M/100M/1GBASE-T Ethernet interfaces (RJ-45), 4 x 1 Gigabit (SFP) Ethernet interfaces | 12 x 10M/100M/1GBASE-T Ethernet interfaces (RJ-45), 4 x 10 Gigabit (SFP+) Ethernet interfaces | 12 x 10M/100M/1GBASE-T Ethernet interfaces (RJ-45), 4 x 10 Gigabit (SFP+) Ethernet interfaces |
| Network modules | None | None | 10G SFP+, 1/10G FTW Options | 10G SFP+, 1/10G FTW Options |
| Note: The 2100 Series appliances may also be deployed as dedicated threat sensors with fail-to-wire network modules. Please contact your Cisco representative for details. | | | | |
| Maximum number of interfaces | Up to 16 total Ethernet ports, (12x1G RJ-45, 4x1G SFP) | Up to 16 total Ethernet ports, (12x1G RJ-45, 4x1G SFP) | Up to 24 total Ethernet ports (12x1G RJ-45, 4x10G SFP+, and network module) | Up to 24 total Ethernet ports (12x1G RJ-45, 4x10G SFP+, and network module) |
| Integrated network management ports | 1 x 10M/100M/1GBASE-T Ethernet port (RJ-45) | 1 x 10M/100M/1GBASE-T Ethernet port (RJ-45) | 1 x 10M/100M/1GBASE-T Ethernet port (RJ-45) | 1 x 10M/100M/1GBASE-T Ethernet port (RJ-45) |
| Serial port | 1 x RJ-45 console | 1 x RJ-45 console | 1 x RJ-45 console | 1 x RJ-45 console |
| USB | 1 x USB 2.0 Type-A (500mA) | 1 x USB 2.0 Type-A (500mA) | 1 x USB 2.0 Type-A (500mA) | 1 x USB 2.0 Type-A (500mA) |
| Storage | 1x 100 GB, 1x spare slot (for MSP) | 1x 100 GB, 1x spare slot (for MSP) | 1x 200 GB, 1x spare slot (for MSP) | 1x 200 GB, 1x spare slot (for MSP) |
| Power supply configuration | Single integrated 250W AC power supply. | Single integrated 250W AC power supply. | Single 400W AC, Dual 400W AC optional. Single/Dual 350W DC optional ¹ | Dual 400W AC. Single/dual 350W DC optional ¹ |
| AC input voltage | 100 to 240V AC | 100 to 240V AC | 100 to 240V AC | 100 to 240V AC |
| AC maximum input current | < 2.7A at 100V | < 2.7A at 100V | < 6A at 100V | < 6A at 100V |
| AC maximum output power | 250W | 250W | 400W | 400W |
| AC frequency | 50 to 60 Hz | 50 to 60 Hz | 50 to 60 Hz | 50 to 60 Hz |
| AC efficiency | >88% at 50% load | >88% at 50% load | >89% at 50% load | >89% at 50% load |
| DC input voltage | - | - | -48V to -60VDC | -48V to -60VDC |
| DC maximum input current | - | - | < 12.5A at -48V | < 12.5A at -48V |
| DC maximum output power | - | - | 350W | 350W |
| DC efficiency | - | - | >88% at 50% load | >88% at 50% load |
| Redundancy | None | None | 1+1 AC or DC with dual supplies | 1+1 AC or DC with dual supplies |
| Fans | 4 integrated (2 internal, 2 | 4 integrated (2 internal, 2 | 1 hot-swappable fan | 1 hot-swappable fan |

| Features | Cisco Firepower Model | | | |
|---|--|--|--|---|
| | exhaust) fans ² | exhaust) fans ² | module (with 4 fans) ² | module (with 4 fans) ² |
| Noise | 56 dBA @ 25C | 56 dBA @ 25C | 56 dBA @ 25C | 56 dBA @ 25C |
| | 74 dBA at highest system performance. | 74 dBA at highest system performance. | 77 dBA at highest system performance. | 77 dBA at highest system performance. |
| Rack mountable | Yes. Fixed mount brackets included. (2-post). Mount rails optional (4-post EIA-310-D rack) | Yes. Fixed mount brackets included. (2-post). Mount rails optional (4-post EIA-310-D rack) | Yes. Mount rails included (4-post EIA-310-D rack) | Yes. Mount rails included (4-post EIA-310-D rack) |
| Weight | 16.1 lb (7.3 kg): with 2x SSDs | 16.1 lb (7.3 kg): with 2x SSDs | 19.4 lb (8.8 kg) 1 x power supplies, 1 x NM, 1 x fan module, 2x SSDs | 21 lb (9.53 kg) 2 x power supplies, 1 x NM, 1 x fan module, 2x SSDs |
| 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) or NEBS operation (see below) ³ | 32 to 104°F (0 to 40°C) |
| Temperature: nonoperating | -4 to 149°F (-20 to 65°C) | -4 to 149°F (-20 to 65°C) | -4 to 149°F (-20 to 65°C) | -4 to 149°F (-20 to 65°C) |
| Humidity: operating | 10 to 85% noncondensing | 10 to 85% noncondensing | 10 to 85% noncondensing | 10 to 85% noncondensing |
| Humidity: nonoperating | 5 to 95% noncondensing | 5 to 95% noncondensing | 5 to 95% noncondensing | 5 to 95% noncondensing |
| Altitude: operating | 10,000 ft (max) | 10,000 ft (max) | 10,000 ft (max) or NEBS operation (see below) ³ | 10,000 ft (max) |
| Altitude: nonoperating | 40,000 ft (max) | 40,000 ft (max) | 40,000 ft (max) | 40,000 ft (max) |
| NEBS operation (FPR-2130 Only)³ | | | Operating altitude: 0 to 13,000 ft (3962 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 55°C, up to 6,000 ft (1829 m) | |

¹ Dual power supplies are hot-swappable.

² Fans operate in a 3+1 redundant configuration where the system will continue to function with only 3 operational fans. The 3 remaining fans will run at full speed.

³ FPR-2130 platform is designed to be NEBS ready. The availability of NEBS certification is pending.

Table 4. Table 4: Cisco Firepower 2100 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 |

| Specification | Description |
|----------------|---|
| Safety | <ul style="list-style-type: none"> • UL 60950-1 • CAN/CSA-C22.2 No. 60950-1 • EN 60950-1 • IEC 60950-1 • AS/NZS 60950-1 • GB4943 |
| EMC: emissions | <ul style="list-style-type: none"> • 47CFR Part 15 (CFR 47) Class A (FCC Class A) • AS/NZS CISPR22 Class A • CISPR22 CLASS A • EN55022 Class A • ICE5003 Class A • VCCI Class A • EN61000-3-2 • EN61000-3-3 • KN22 Class A • CNS13438 Class A • EN300386 • TCVN7189 |
| EMC: Immunity | <ul style="list-style-type: none"> • EN55024 • CISPR24 • EN300386 • KN24 • TVCN 7317 • EN-61000-4-2, EN-61000-4-3, EN-61000-4-4, EN-61000-4-5, EN-61000-4-6, EN-61000-4-8, EN61000-4-11 |

Cisco Capital

Flexible payment solutions to help you achieve your objectives

Cisco Capital makes it easier to get the right technology to achieve your objectives, enable business transformation and help you stay competitive. We can help you reduce the total cost of ownership, conserve capital, and accelerate growth. In more than 100 countries, our flexible payment solutions can help you acquire hardware, software, services and complementary third-party equipment in easy, predictable payments. [Learn more.](#)

Americas Headquarters
Cisco Systems, Inc.
San Jose, CA

Asia Pacific Headquarters
Cisco Systems (USA) Pte. Ltd.
Singapore

Europe Headquarters
Cisco Systems International BV Amsterdam,
The Netherlands

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at <https://www.cisco.com/go/offices>.

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: <https://www.cisco.com/go/trademarks>. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)