

Cisco Firepower 1000 Series

Cisco Secure Firewall ASA

Cisco Secure Firewall Threat Defense (FTD)

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Cisco Firepower 1000 Series Appliances

The Cisco Firepower® 1000 Series is a family of four firewall platforms that deliver business resiliency, management ease-of-use, and threat defense. They offer exceptional sustained performance when advanced threat functions are enabled. 1000 Series addresses use cases from small offices to remote branches. 1000 Series platforms run Cisco Threat Defense (FTD) and Cisco ASA software.

Model overview



Cisco Firepower 1000 Series summary

| Model | Throughput: Threat Defense Software | IPS Throughput | Interfaces |
|----------|-------------------------------------|----------------|---------------------------------|
| FPR-1010 | 890 Mbps | 900 Mbps | 8 x RJ45 |
| FPR-1120 | 2.3 Gbps | 2.6 Gbps | 8 x RJ45, 4 x SFP |
| FPR-1140 | 3.3 Gbps | 3.5 Gbps | 8 x RJ45, 4 x SFP |
| FPR-1150 | 5.3 Gbps | 6.1 Gbps | 8 x RJ45, 2 x SFP, 2 x 10G SFP+ |

Detailed performance specifications and feature highlights

Table 1. Performance specifications and feature highlights for Cisco Firepower 1000 with the Threat Defense (FTD) image

| Features | 1010 | 1120 | 1140 | 1150 |
|---|---|----------|----------|----------|
| Throughput: Firewall (FW) + Application Visibility and Control (AVC) (1024B) | 890 Mbps | 2.3 Gbps | 3.3 Gbps | 5.3 Gbps |
| Throughput: FW + AVC + Intrusion Prevention System (IPS) (1024B) | 880 Mbps | 2.3 Gbps | 3.3 Gbps | 4.9 Gbps |
| Maximum concurrent sessions, with AVC | 100K | 200K | 400K | 600K |
| Maximum new connections per second, with AVC | 6K | 15K | 22K | 28K |
| Transport Layer Security (TLS) | 195 Mbps | 850 Mbps | 1.2 Gbps | 1.4 Gbps |
| Throughput: IPS (1024B) | 900 Mbps | 2.6 Gbps | 3.5 Gbps | 6.1 Gbps |
| IPSec VPN throughput (1024B TCP w/Fastpath) | 400 Mbps | 1.2 Gbps | 1.4 Gbps | 2.4 Gbps |
| Maximum VPN Peers | 75 | 150 | 400 | 800 |
| Cisco Device Manager (local management) | Yes | Yes | Yes | Yes |
| Centralized management | Centralized configuration, logging, monitoring, and reporting are performed by the Threat Defense Manager (FMC) or, alternatively, from the cloud with Cisco Defense Orchestrator | | | |
| 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 IPS | Available; can passively detect endpoints and infrastructure for threat correlation and Indicators of Compromise (IoC) intelligence | | | |

| Features | 1010 | 1120 | 1140 | 1150 |
|--|---|------|------|------|
| Cisco Malware Defense 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 Malware Analytics 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 | Cisco Firepower 1000 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 1000 appliances

| Features | 1010 | 1120 | 1140 | 1150 |
|--|----------|----------|----------|----------|
| Stateful inspection firewall throughput¹ | 2 Gbps | 4.5 Gbps | 6 Gbps | 7.5 Gbps |
| Stateful inspection firewall throughput (multiprotocol)² | 1.4 Gbps | 2.5 Gbps | 3.5 Gbps | 4.5 Gbps |
| Concurrent firewall connections | 100,000 | 200,000 | 400,000 | 600,000 |
| Firewall latency (UDP 64B microseconds) | - | - | - | - |
| New connections per second | 25,000 | 75,000 | 100,000 | 150,000 |
| IPsec VPN throughput (450B UDP L2L test) | 500 Mbps | 1 Gbps | 1.2 Gbps | 1.7 Gbps |

| Features | 1010 | 1120 | 1140 | 1150 |
|---------------------------------------|---|----------------------------------|----------------------------------|----------------------------------|
| Maximum VPN Peers | 75 | 150 | 400 | 800 |
| Security contexts (included; maximum) | NA | 2; 5 | 2; 5 | 2; 25 |
| High availability | 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 | | | |

Performance testing methodologies [LINK](#)

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.

Hardware specifications

Table 3. Cisco Firepower 1000 Series hardware specifications

| Features | 1010 | 1120 | 1140 | 1150 |
|-------------------------------------|---|---|---|---|
| Dimensions (H x W x D) | 1.82 x 7.85 x 8.07 in. | 1.72 x 17.2 x 10.58 in. | 1.72 x 17.2 x 10.58 in. | 1.72 x 17.2 x 10.58 in. |
| Form factor (rack units) | DT | 1RU | 1RU | 1RU |
| Integrated I/O | 8 x RJ-45 (Includes 2 POE+ capable ports) | 8 x RJ-45, 4 x SFP | 8 x RJ-45, 4 x SFP | 8 x RJ-45, 2 x 1Gbps SFP, 2 x 1/10Gbps SFP+ |
| 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 3.0 Type-A (500mA) | 1 x USB 3.0 Type-A (500mA) | 1 x USB 3.0 Type-A (500mA) | 1 x USB 3.0 Type-A (500mA) |

| Features | 1010 | 1120 | 1140 | 1150 |
|-----------------------------------|--------------------------------------|--|--|--|
| Storage | 1 x 200 GB | 1 x 200 GB | 1 x 200 GB | 1 x 200 GB |
| Power supply configuration | +12V and -53.5V | +12V | +12V | +12V |
| AC input voltage | 100 to 240V AC | 100 to 240V AC | 100 to 240V AC | 100 to 240V AC |
| AC maximum input current | < 2A at 100V, < 1A at 240V | < 2A at 100V, < 1A at 240V | < 2A at 100V, < 1A at 240V | < 2A at 100V, < 1A at 240V |
| AC maximum output power | 115W (55W of +12V and 60W of -53.5V) | 100W | 100W | 100W |
| AC frequency | 50 to 60 Hz | 50 to 60 Hz | 50 to 60 Hz | 50 to 60 Hz |
| AC efficiency | >88% at 50% load | >85% at 50% load | >85% at 50% load | >85% at 50% load |
| Redundancy | None | None | None | None |
| Fans | None | 1 integrated fan2 | 1 integrated fan2 | 1 integrated fan2 |
| Noise | 0 dBA | 31.7 dBA @ 25C, 56.8 dBA at highest system performance | 34.2 dBA @ 25C, 56.8 dBA at highest system performance | 34.2 dBA @ 25C, 56.8 dBA at highest system performance |
| Rack mountable | Yes. Separate kit must be ordered. | Yes. Fixed mount brackets included (2-post). | Yes. Fixed mount brackets included (2-post). | Yes. Fixed mount brackets included (2-post). |
| Weight | 3 lb (1.36 kg) | 8 lb (3.63 kg) | 8 lb (3.63 kg) | 8 lb (3.63 kg) |
| 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) |
| Temperature: nonoperating | -13 to 158°F (-25 to 70°C) | -13 to 158°F (-25 to 70°C) | -13 to 158°F (-25 to 70°C) | -13 to 158°F (-25 to 70°C) |
| Humidity: operating | 90% noncondensing | 90% noncondensing | 90% noncondensing | 90% noncondensing |
| Humidity: nonoperating | 10 to 90% noncondensing | 10 to 90% noncondensing | 10 to 90% noncondensing | 10 to 90% noncondensing |
| Altitude: operating | 9843 ft (max) 3000 m (max) | 9843 ft (max) 3000 m (max) | 9843 ft (max) 3000 m (max) | 9843 ft (max) 3000 m (max) |
| Altitude: nonoperating | 15,000 ft (max) | 15,000 ft (max) | 15,000 ft (max) | 15,000 ft (max) |

Table 4. Cisco Firepower 1000 Series 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 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 • ICES003 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 |

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Document history

| New or Revised Topic | Described In | Date |
|-------------------------------------|--|---------------|
| Product Performance numbers updated | Series Summary Table and Table 1 | July 14, 2021 |

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