

# 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
<b>Throughput: Firewall (FW) + Application Visibility and Control (AVC) (1024B)</b>	890 Mbps	2.3 Gbps	3.3 Gbps	5.3 Gbps
<b>Throughput: FW + AVC + Intrusion Prevention System (IPS) (1024B)</b>	880 Mbps	2.3 Gbps	3.3 Gbps	4.9 Gbps
<b>Maximum concurrent sessions, with AVC</b>	100K	200K	400K	600K
<b>Maximum new connections per second, with AVC</b>	6K	15K	22K	28K
<b>Transport Layer Security (TLS)</b>	195 Mbps	850 Mbps	1.2 Gbps	1.4 Gbps
<b>Throughput: IPS (1024B)</b>	900 Mbps	2.6 Gbps	3.5 Gbps	6.1 Gbps
<b>IPSec VPN throughput (1024B TCP w/Fastpath)</b>	400 Mbps	1.2 Gbps	1.4 Gbps	2.4 Gbps
<b>Maximum VPN Peers</b>	75	150	400	800
<b>Cisco Device Manager (local management)</b>	Yes	Yes	Yes	Yes
<b>Centralized management</b>	Centralized configuration, logging, monitoring, and reporting are performed by the Threat Defense Manager (FMC) or, alternatively, from the cloud with Cisco Defense Orchestrator			
<b>AVC</b>	Standard, supporting more than 4000 applications, as well as geolocations, users, and websites			
<b>AVC: OpenAppID support for custom, open-source application detectors</b>	Standard			
<b>Cisco Security Intelligence</b>	Standard, with IP, URL, and DNS threat intelligence			
<b>Cisco IPS</b>	Available; can passively detect endpoints and infrastructure for threat correlation and Indicators of Compromise (IoC) intelligence			

Features	1010	1120	1140	1150
<b>Cisco Malware Defense for Networks</b>	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			
<b>Cisco Malware Analytics sandboxing</b>	Available			
<b>URL filtering: number of categories</b>	More than 80			
<b>URL filtering: number of URLs categorized</b>	More than 280 million			
<b>Automated threat feed and IPS signature updates</b>	Yes: class-leading Collective Security Intelligence (CSI) from the Cisco Talos® group ( <a href="https://www.cisco.com/c/en/us/products/security/talos.html">https://www.cisco.com/c/en/us/products/security/talos.html</a> )			
<b>Third-party and open- source ecosystem</b>	Open API for integrations with third-party products; Snort® and OpenAppID community resources for new and specific threats			
<b>High availability and clustering</b>	Active/standby			
<b>Cisco Trust Anchor Technologies</b>	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
<b>Stateful inspection firewall throughput<sup>1</sup></b>	2 Gbps	4.5 Gbps	6 Gbps	7.5 Gbps
<b>Stateful inspection firewall throughput (multiprotocol)<sup>2</sup></b>	1.4 Gbps	2.5 Gbps	3.5 Gbps	4.5 Gbps
<b>Concurrent firewall connections</b>	100,000	200,000	400,000	600,000
<b>Firewall latency (UDP 64B microseconds)</b>	-	-	-	-
<b>New connections per second</b>	25,000	75,000	100,000	150,000
<b>IPsec VPN throughput (450B UDP L2L test)</b>	500 Mbps	1 Gbps	1.2 Gbps	1.7 Gbps

Features	1010	1120	1140	1150
<b>Maximum VPN Peers</b>	75	150	400	800
<b>Security contexts (included; maximum)</b>	NA	2; 5	2; 5	2; 25
<b>High availability</b>	Active/standby	Active/active and Active/standby	Active/active and Active/standby	Active/active and Active/standby
<b>Clustering</b>	-			
<b>Scalability</b>	VPN Load Balancing			
<b>Centralized management</b>	Centralized configuration, logging, monitoring, and reporting are performed by Cisco Security Manager or alternatively in the cloud with Cisco Defense Orchestrator			
<b>Adaptive Security Device Manager</b>	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
<b>Dimensions (H x W x D)</b>	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.
<b>Form factor (rack units)</b>	DT	1RU	1RU	1RU
<b>Integrated I/O</b>	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+
<b>Integrated network management ports</b>	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)
<b>Serial port</b>	1 x RJ-45 console	1 x RJ-45 console	1 x RJ-45 console	1 x RJ-45 console
<b>USB</b>	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
<b>Storage</b>	1 x 200 GB	1 x 200 GB	1 x 200 GB	1 x 200 GB
<b>Power supply configuration</b>	+12V and -53.5V	+12V	+12V	+12V
<b>AC input voltage</b>	100 to 240V AC	100 to 240V AC	100 to 240V AC	100 to 240V AC
<b>AC maximum input current</b>	< 2A at 100V, < 1A at 240V	< 2A at 100V, < 1A at 240V	< 2A at 100V, < 1A at 240V	< 2A at 100V, < 1A at 240V
<b>AC maximum output power</b>	115W (55W of +12V and 60W of -53.5V)	100W	100W	100W
<b>AC frequency</b>	50 to 60 Hz	50 to 60 Hz	50 to 60 Hz	50 to 60 Hz
<b>AC efficiency</b>	>88% at 50% load	>85% at 50% load	>85% at 50% load	>85% at 50% load
<b>Redundancy</b>	None	None	None	None
<b>Fans</b>	None	1 integrated fan2	1 integrated fan2	1 integrated fan2
<b>Noise</b>	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
<b>Rack mountable</b>	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).
<b>Weight</b>	3 lb (1.36 kg)	8 lb (3.63 kg)	8 lb (3.63 kg)	8 lb (3.63 kg)
<b>Temperature: operating</b>	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)
<b>Temperature: nonoperating</b>	-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)
<b>Humidity: operating</b>	90% noncondensing	90% noncondensing	90% noncondensing	90% noncondensing
<b>Humidity: nonoperating</b>	10 to 90% noncondensing	10 to 90% noncondensing	10 to 90% noncondensing	10 to 90% noncondensing
<b>Altitude: operating</b>	9843 ft (max) 3000 m (max)	9843 ft (max) 3000 m (max)	9843 ft (max) 3000 m (max)	9843 ft (max) 3000 m (max)
<b>Altitude: nonoperating</b>	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
<b>Regulatory compliance</b>	Products comply with CE markings per directives 2004/108/EC and 2006/108/EC
<b>Safety</b>	<ul style="list-style-type: none"> <li>• UL 60950-1</li> <li>• CAN/CSA-C22.2 No. 60950-1</li> <li>• EN 60950-1</li> <li>• IEC 60950-1</li> <li>• AS/NZS 60950-1</li> <li>• GB4943</li> </ul>
<b>EMC: emissions</b>	<ul style="list-style-type: none"> <li>• 47CFR Part 15 (CFR 47) Class A (FCC Class A)</li> <li>• AS/NZS CISPR22 Class A</li> <li>• CISPR22 CLASS A</li> <li>• EN55022 Class A</li> <li>• ICES003 Class A</li> <li>• VCCI Class A</li> <li>• EN61000-3-2</li> <li>• EN61000-3-3</li> <li>• KN22 Class A</li> <li>• CNS13438 Class A</li> <li>• EN300386</li> <li>• TCVN7189</li> </ul>
<b>EMC: immunity</b>	<ul style="list-style-type: none"> <li>• EN55024</li> <li>• CISPR24</li> <li>• EN300386</li> <li>• KN24</li> <li>• TVCN 7317</li> <li>• 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</li> </ul>

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## Document history

New or Revised Topic	Described In	Date
Product Performance numbers updated	<a href="#">Series Summary Table</a> and <a href="#">Table 1</a>	July 14, 2021

**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

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