

# Cisco Firepower 2100 Series

Cisco Secure Firewall

Cisco Secure IPS

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## Cisco Firepower 2100 Series appliances

The Cisco Firepower 2100 Series is a family of four threat-focused security platforms that deliver business resiliency and superior threat defense. They 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. 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 2130 platform. 2100 Series platforms run either the Cisco Secure Firewall ASA or Threat Defense (FMC) software. They can be deployed in both firewall and dedicated IPS modes.

### Model overview

Cisco Firepower 2110/2120 Model



Cisco Firepower 2130/2140 Model



### Cisco Firepower 2100 series summary:

Model	Firewall	NGFW	IPS Throughput	Interfaces	Optional interfaces
FPR-2110	3G	2.6G	2.6G	12 x RJ45, 4 x SFP	N/A
FPR-2120	6G	3.4G	3.5G	12 x RJ45, 4 x SFP	N/A
FPR-2130	10G	5.4G	5.4G	12 x RJ45, 4 x SFP+	10G SFP+, 1/10G FTW
FPR-2140	20G	10.4G	10.5G	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 2100 Series with Cisco Threat Defense software

Features	2110	2120	2130	2140
<b>Throughput: FW + AVC (1024B)</b>	2.6 Gbps	3.4 Gbps	5.4 Gbps	10.4 Gbps
<b>Throughput: FW + AVC + IPS (1024B)</b>	2.6 Gbps	3.4 Gbps	5.4 Gbps	10.4 Gbps
<b>Maximum concurrent sessions, with AVC</b>	1 million	1.5 million	2 million	3 million
<b>Maximum new connections per second, with AVC</b>	14K	18K	30K	57K
<b>TLS</b>	365 Mbps	475 Mbps	760 Mbps	1.4 Gbps
<b>Throughput: IPS (1024B)</b>	2.6 Gbps	3.5 Gbps	5.4 Gbps	10.5 Gbps
<b>IPSec VPN Throughput (1024B TCP w/Fastpath)</b>	950 Mbps	1.2 Gbps	1.9 Gbps	3.6 Gbps
<b>Maximum VPN Peers</b>	1,500	3,500	7,500	10,000
<b>Cisco Firepower Device Manager (local management)</b>	Yes	Yes	Yes	Yes
<b>Centralized management</b>	Centralized configuration, logging, monitoring, and reporting are performed by the Management Center or alternatively in the cloud with Cisco Defense Orchestrator			
<b>Application Visibility and Control (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 Firepower NGIPS</b>	Available; can passively detect endpoints and infrastructure for threat correlation and Indicators of Compromise (IoC) intelligence			
<b>Cisco AMP 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 Secure Endpoint is also optionally available			
<b>Cisco AMP Threat Grid 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			

Features	2110	2120	2130	2140
<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>	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
<b>Stateful inspection firewall throughput<sup>1</sup></b>	3 Gbps	6 Gbps	10 Gbps	20 Gbps
<b>Stateful inspection firewall throughput (multiprotocol)<sup>2</sup></b>	1.5 Gbps	3 Gbps	5 Gbps	10 Gbps
<b>Concurrent firewall connections</b>	1 million	1.5 million	2 million	3 million
<b>Firewall latency (UDP 64B microseconds)</b>	-	-	-	-
<b>New connections per second</b>	18,000	28,000	40,000	75,000
<b>IPsec VPN throughput (450B UDP L2L test)</b>	500 Mbps	700 Mbps	1 Gbps	2 Gbps
<b>Maximum VPN Peers</b>	1,500	3,500	7,500	10,000
<b>Security contexts (included; maximum)</b>	2; 25	2; 25	2; 30	2; 40
<b>High availability</b>	Active/active and 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			

Features	2110	2120	2130	2140
<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			

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

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

<sup>3</sup> 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
<b>Dimensions (H x W x D)</b>	1.73 x 16.90 x 19.76 in. (4.4 x 42.9 x 50.2cm)	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)
<b>Form factor (rack units)</b>	1RU	1RU	1RU	1RU
<b>Integrated I/O</b>	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
<b>Network modules</b>	None	None	10G SFP+, 1/10G FTW  Options	10G SFP+, 1/10G FTW  Options
<b>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.</b>				
<b>Maximum number of interfaces</b>	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)
<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)

Features	Cisco Firepower Model			
<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 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)
<b>Storage</b>	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)
<b>Power supply configuration</b>	Single integrated 250W AC power supply.	Single integrated 250W AC power supply.	Single 400W AC, Dual 400W AC optional. Single/Dual 350W DC optional1	Dual 400W AC. Single/dual 350W DC optional1
<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>	< 2.7A at 100V	< 2.7A at 100V	< 6A at 100V	< 6A at 100V
<b>AC maximum output power</b>	250W	250W	400W	400W
<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	>88% at 50% load	>89% at 50% load	>89% at 50% load
<b>DC input voltage</b>	-	-	-48V to -60VDC	-48V to -60VDC
<b>DC maximum input current</b>	-	-	< 12.5A at -48V	< 12.5A at -48V
<b>DC maximum output power</b>	-	-	350W	350W
<b>DC efficiency</b>			>88% at 50% load	>88% at 50% load
<b>Redundancy</b>	None	None	1+1 AC or DC with dual supplies	1+1 AC or DC with dual supplies
<b>Fans</b>	4 integrated (2 internal, 2 exhaust) fans2	4 integrated (2 internal, 2 exhaust) fans2	1 hot-swappable fan module (with 4 fans)2	1 hot-swappable fan module (with 4 fans)2
<b>Noise</b>	56 dBA @ 25C 74 dBA at highest system performance.	56 dBA @ 25C 74 dBA at highest system performance.	56 dBA @ 25C 77 dBA at highest system performance.	56 dBA @ 25C 77 dBA at highest system performance.

Features	Cisco Firepower Model			
<b>Rack mountable</b>	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)
<b>Weight</b>	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
<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) or NEBS operation (see below) <sup>3</sup>	32 to 104°F (0 to 40°C)
<b>Temperature: nonoperating</b>	-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)
<b>Humidity: operating</b>	10 to 85% noncondensing	10 to 85% noncondensing	10 to 85% noncondensing	10 to 85% noncondensing
<b>Humidity: nonoperating</b>	5 to 95% noncondensing	5 to 95% noncondensing	5 to 95% noncondensing	5 to 95% noncondensing
<b>Altitude: operating</b>	10,000 ft (max)	10,000 ft (max)	10,000 ft (max) or NEBS operation (see below) <sup>3</sup>	10,000 ft (max)
<b>Altitude: nonoperating</b>	40,000 ft (max)	40,000 ft (max)	40,000 ft (max)	40,000 ft (max)
<b>NEBS operation (FPR- 2130 Only)<sup>3</sup></b>			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)	

<sup>1</sup> Dual power supplies are hot-swappable.

<sup>2</sup> 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.

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



**Table 4.** Cisco Firepower 2100 Series NEBS, 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.  
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**Asia Pacific Headquarters**  
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**Europe Headquarters**  
Cisco Systems International BV Amsterdam,  
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