

Cisco FirePOWER 8000 Series Appliances

Product Overview

Finding a network security appliance with exactly the right throughput, interface options, and threat protection for all the different segments of your network is hard enough. Even if you find the perfect match for your requirements now, it's tough to plan for what you'll need in the future - especially within your current budget.

The Cisco FirePOWER™ 8000 Series Appliances help future proof your security appliance decision. They marry an extensible modular platform with the industry's best threat protection, according to testing by NSS Labs. They are designed to fit your network requirements today and in the future.

Features and Benefits

The Cisco FirePOWER 8000 Series Appliances are the base platform for the Cisco FirePOWER next-generation Intrusion Prevention System (NGIPS) threat protection solution. These appliances provide integrated real-time contextual awareness, full-stack visibility, and intelligent security automation. The result? Security you can count on, combined with reliable performance and a low total cost of ownership. Threat protection can be expanded with optional subscription licenses to provide Advanced Malware Protection (AMP) and application visibility and control. Cisco FirePOWER Appliances set the industry benchmark for threat detection effectiveness, inspected throughput, and value as measured by studies conducted by NSS Labs, the world's leading information security research and advisory company.

Product Specifications

Instead of the usual fixed port configuration of most high-end security appliances, the modularity of the Cisco FirePOWER 8000 Series Appliances lets you to choose the number and type of interfaces appropriate for your network. Various network modules (NetMods) are inserted into the Cisco FirePOWER 8000 Series Appliances to customize the interface configuration to match your network requirements. NetMods can either be “non-bypass” (useful in passive or fail-closed deployments) or “integrated fail-open/bypass” (useful in inline deployments). They are available in the options shown in Table 1.

Table 1. NetMod Options for the Cisco FirePOWER 8000 Series

Integrated Fail-Open/Bypass NetMods	Non-Bypass NetMods
1-Gbps 4-port copper	1-Gbps 4-port copper
1-Gbps 4-port fiber	1-Gbps 4-port fiber
10-Gbps 2-port fiber SR (short-reach)	10-Gbps 4-port fiber SR (short-reach)
10-Gbps 2-port fiber LR (long-reach)	10-Gbps 4-port fiber (long-reach)
40-Gbps 2-port fiber SR	

This approach gives you a low entry price and a simple upgrade path. If you require 1-Gbps copper ports today but will require a 10-Gbps fiber support in the future, this modular approach gives you the option to simply add or swap out a NetMod and have exactly what you need to fit your network at all times. With up to 7 NetMod slots per chassis, the Cisco FirePOWER 8000 Series Appliances offer increased port density.

At the heart of the new Cisco FirePOWER 8000 Series Appliances lies purpose-built breakthrough acceleration technology, providing superior performance with greater space and energy efficiency. Optimized for network security processing, Cisco FirePOWER delivers this performance with purpose-built hardware acceleration technology. It uses three separate data processing stages, each custom-designed for particular workloads.

The Cisco FirePOWER 8000 Series Appliances range from 2-Gbps of inspected throughput all the way up to an enterprise-level 60 Gbps of inspected throughput. The Cisco FirePOWER 8200 and 8300 Series Appliances can be stacked one on top of the other to increase their throughput speed, resulting in a 2- to 8-chassis size. Competing products that deliver similar bandwidth often require entire data center racks or a rack and a half of space - up to 34 rack units. So the Cisco FirePOWER 8000 Series Appliances' port density and their capability to be racked and stacked (so they take up less data center space) make them an exceptional economic and eco-efficient value.

The Cisco FirePOWER 8000 Series Appliances provide other valuable innovations. Their modularity helps you flexibly configure and change network options as bandwidth requirements increase. And they offer lights-out management for remote network configuration without requiring physical access.

Tables 2 through 4 provide more details on the performance and functions of Cisco FirePOWER 8000 Series Appliances.

Table 2. FirePOWER 8350, 8360, 8370, and 8390 Appliances: Performance and Functionality

Model	8350	8360	8370	8390
IPS Throughput	15 Gbps	30 Gbps	45 Gbps	60 Gbps
Model Throughput	30 Gbps	60 Gbps	90 Gbps	120 Gbps
Modular Interfaces	Up to 7 modules in any combination	Up to 6 modules in any combination	Up to 5 modules in any combination	Up to 4 modules in any combination
Monitoring Interfaces (Configurable Bypass)	(4) 1-Gbps copper; (4) 1-Gbps fiber; (2) 10-Gbps SR; (2) 10-Gbps LR	(4) 1-Gbps copper; (4) 1-Gbps fiber; (2) 10-Gbps SR; (2) 10-Gbps LR	(4) 1-Gbps copper; (4) 1-Gbps fiber; (2) 10-Gbps SR; (2) 10-Gbps LR	(4) 1-Gbps copper; (4) 1-Gbps fiber; (2) 10-Gbps SR; (2) 10-Gbps LR
Monitoring Interfaces (Non-Bypass)	(4) 1-Gbps copper; (4) 1-Gbps fiber; (4) 10-Gbps SR; (4) 10-Gbps LR	(4) 1-Gbps copper; (4) 1-Gbps fiber; (4) 10-Gbps SR; (4) 10-Gbps LR	(4) 1-Gbps copper; (4) 1-Gbps fiber; (4) 10-Gbps SR; (4) 10-Gbps LR	(4) 1-Gbps copper; (4) 1-Gbps fiber; (4) 10-Gbps SR; (4) 10-Gbps LR
Management Interfaces	RJ45	RJ45	RJ45	RJ45
Management Interface Speed	10/100/1000	10/100/1000	10/100/1000	10/100/1000
Typical Latency	< 150 microseconds	< 150 microseconds	< 150 microseconds	< 150 microseconds
Memory (RAM)	128 GB	256 GB	384 GB	512 GB
Lights-Out Management	Yes	Yes	Yes	Yes
Stackable	Up to 3 stacking kits can be added for a total stack size of four - 60-Gbps IPS	Up to 2 stacking kits can be added for a total stack size of four - 60-Gbps IPS	1 stacking kit can be added for a total stack size of four - see 8390 for details	Fully stacked. No further expansion possible.
FirePOWER	Yes	Yes	Yes	Yes
Dual Power Supplies	Yes	Yes	Yes	Yes
Hard Drives	Solid state	Solid state	Solid state	Solid state
Cooling Fans	6	12	18	24

Table 3. Cisco FirePOWER 8250, 8260, 8270, and 8290 Appliances: Performance and Functionality

Model	8250	8260	8270	8290
IPS Throughput	10 Gbps	20 Gbps	30 Gbps	40 Gbps
Model Throughput	20 Gbps	40 Gbps	60 Gbps	80 Gbps
Modular Interfaces	Up to 7 modules in any combination	Up to 6 modules in any combination	Up to 5 modules in any combination	Up to 4 modules in any combination
Monitoring Interfaces (Configurable Bypass)	(4) 1-Gbps copper; (4) 1-Gbps fiber; (2) 10-Gbps SR; (2) 10-Gbps LR	(4) 1-Gbps copper; (4) 1-Gbps fiber; (2) 10-Gbps SR; (2) 10-Gbps LR	(4) 1-Gbps copper; (4) 1-Gbps fiber; (2) 10-Gbps SR; (2) 10-Gbps LR	(4) 1-Gbps copper; (4) 1-Gbps fiber; (2) 10-Gbps SR; (2) 10-Gbps LR
Monitoring Interfaces (Non-Bypass)	(4) 1-Gbps copper; (4) 1-Gbps fiber; (4) 10-Gbps SR; (4) 10-Gbps LR	(4) 1-Gbps copper; (4) 1-Gbps fiber; (4) 10-Gbps SR; (4) 10-Gbps LR	(4) 1-Gbps copper; (4) 1-Gbps fiber; (4) 10-Gbps SR; (4) 10-Gbps LR	(4) 1-Gbps copper; (4) 1-Gbps fiber; (4) 10-Gbps SR; (4) 10-Gbps LR
Management Interfaces	RJ45	RJ45	RJ45	RJ45
Management Interface Speed	10/100/1000	10/100/1000	10/100/1000	10/100/1000
Typical Latency	< 150 microseconds	< 150 microseconds	< 150 microseconds	< 150 microseconds
Memory (RAM)	48 GB	96 GB	144 GB	192 GB
Lights-Out Management	Yes	Yes	Yes	Yes
Stackable	Up to 3 stacking kits can be added for a total stack size of four - 40-Gbps IPS	Up to 2 stacking kits can be added for a total stack size of four - 40-Gbps IPS	1 stacking kit can be added for a total stack size of four - see 8290 for details	Fully stacked. No further expansion possible.
FirePOWER	Yes	Yes	Yes	Yes
Dual Power Supplies	Yes	Yes	Yes	Yes
Hard Drives	Solid state	Solid state	Solid state	Solid state
Cooling Fans	6	12	18	24

Table 4. Cisco FirePOWER 8100 Series Appliances: Performance and Functionality

Model	8120	8130	8140
IPS Throughput	2 Gbps	4 Gbps	6 Gbps
Model Throughput	4 Gbps	8 Gbps	10 Gbps
Modular Interfaces	Yes - up to 3 modules in any combination	Yes - up to 3 modules in any combination	Yes - up to 3 modules in any combination
Monitoring Interfaces (Configurable Bypass)	(4) 1-Gbps copper; (4) 1-Gbps fiber; (2) 10-Gbps SR; (2) 10-Gbps LR	(4) 1-Gbps copper; (4) 1-Gbps fiber; (2) 10-Gbps SR; (2) 10-Gbps LR	(4) 1-Gbps copper; (4) 1-Gbps fiber; (2) 10-Gbps SR; (2) 10-Gbps LR
Monitoring Interfaces (Non-Bypass)	(4) 1-Gbps copper; (4) 1-Gbps fiber; (4) 10-Gbps SR; (4) 10-Gbps LR	(4) 1-Gbps copper; (4) 1-Gbps fiber; (4) 10-Gbps SR; (4) 10-Gbps LR	(4) 1-Gbps copper; (4) 1-Gbps fiber; (4) 10-Gbps SR; (4) 10-Gbps LR
Management Interfaces	RJ45	RJ45	RJ45
Management Interface Speed	10/100/1000	10/100/1000	10/100/1000
Typical Latency	< 150 microseconds	< 150 microseconds	< 150 microseconds
Memory (RAM)	24 GB	24 GB	24 GB
Lights-Out Management	Yes	Yes	Yes

Model	8120	8130	8140
Stackable	No	No	1 stacking kit can be added for a total stack size of two - 12-Gbps IPS
FirePOWER™	Yes	Yes	Yes
Dual Power Supplies	Yes	Yes	Yes
Hard Drives	Solid state	Solid state	Solid state
Cooling Fans	10	10	10

* Exact network performance experienced will vary depending on conditions outside of the control of Cisco, including the protocol mix and average packet size inspected. While IPS throughput is stated here, please note that these appliances can also be deployed as next-generation firewall and AMP devices.

All Cisco FirePOWER 8000 Series appliances offer:

- LCD management interface
- Serial over Ethernet console access
- Solid-state disk drives
- Redundant hot-swappable power supplies

Ordering Information

This section provides a direct link to the Cisco Ordering Tool and lists part numbers for customer convenience.

To place an order, go to [How to Buy](#). You can download software [here](#).

Table 5. Ordering Information

Product Name	Part Number
Cisco FirePOWER 8120 Chassis and Subscription Bundle	FP8120-BUN
Cisco FirePOWER 8130 Chassis and Subscription Bundle	FP8130-BUN
Cisco FirePOWER 8140 Chassis and Subscription Bundle	FP8140-BUN
Cisco FirePOWER 8250 Chassis and Subscription Bundle	FP8250-BUN
Cisco FirePOWER 8260 Chassis and Subscription Bundle	FP8260-BUN
Cisco FirePOWER 8270 Chassis and Subscription Bundle	FP8270-BUN
Cisco FirePOWER 8290 Chassis and Subscription Bundle	FP8290-BUN
Cisco FirePOWER 8350 Chassis and Subscription Bundle	FP8350-BUN
Cisco FirePOWER 8360 Chassis and Subscription Bundle	FP8360-BUN
Cisco FirePOWER 8370 Chassis and Subscription Bundle	FP8370-BUN
Cisco FirePOWER 8390 Chassis and Subscription Bundle	FP8390-BUN

For More Information

To learn more about any of the Cisco FirePOWER appliances, please visit <http://www.cisco.com/c/en/us/products/security/index.html> or contact your local account representative.




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