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Cisco ASA 5500 Series Data Sheet

Enterprise Firewall Next Generation Firewall

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Cisco ASA 5500 Series appliances

The Cisco Firepower 5500 Series is a family of six threat-focused NGFW security platforms that deliver business resiliency through superior threat defense. It offers exceptional sustained performance when advanced threat functions are enabled. The ASA 5500 series' throughput range addresses use cases from the SOHO/ROBO to the internet edge. The ASA 5500 Series platforms can run either the Cisco ASA Firewall or Cisco Firepower Threat Defense (FTD).

Model overview

iliiilii cisco	ASA 5506W-X		• • • • • •	:::	 	•••	; •		
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alialia cisco				11				SA 551	6-X
altalia cisco				///			ASA	5508-X	

Cisco ASA 5500 Series summary:

Model	Firewall	NGFW	NGIPS	Interfaces
ASA-5506	750 Mbps	125 Mbps	125 Mbps	8 x RJ45
ASA-5508	1 Gbps	250 Mbps	250 Mbps	8 x RJ45
ASA-5516	1.8 Gbps	450 Mbps	450 Mbps	8 x RJ45
ASA-5525	2 Gbps	650 Mbps	650 Mbps	8 x RJ45, optional 6 x GE
ASA-5545	3 Gbps	1 Gbps	1 Gbps	8 x RJ45, optional 6 x GE
ASA-5555	4 Gbps	1.2 Gbps	1.2 Gbps	8 x RJ45, optional 6 x GE

Detailed performance specifications and feature highlights

 Table 1.
 Performance specifications and feature highlights for ASA 5500 with the Cisco Firepower Threat defense image

Features	*5506	5508	5516	5525	5545	5555
Throughput: FW + AVC (1024B)	250 Mbps	450 Mbps	850 Mbps	1.1 Gbps	1.5 Gbps	1.7 Gbps
Throughput: FW + AVC + IPS (1024B)	125 Mbps	250 Mbps	450 Mbps	650 Mbps	1 Gbps	1.2 Gbps
Throughput: FW + AVC (450B)	100 Mbps	175 Mbps	275 Mbps	350 Mbps	500 Mbps	600 Mbps
Throughput: FW + AVC + IPS (450B)	75 Mbps	125 Mbps	200 Mbps	250 Mbps	350 Mbps	420 Mbps

Features	[•] 5506	5508	5516	5525	5545	5555			
Maximum concurrent sessions, with AVC	50K	100K	250K	500K	750K	1 Million			
Maximum new connections per second, with AVC	ЗК	7.5K	11 K	11.5K	19K	22K			
TLS	-	250 Mbps	285 Mbps	270 Mbps	290 Mbps	370 Mbps			
Throughput: NGIPS (1024B)	125 Mbps	250 Mbps	450 Mbps	650 Mbps	1 Gbps	1.2 Gbps			
Throughput: NGIPS (450B)	75 Mbps	125 Mbps	200 Mbps	250 Mbps	350 Mbps	420 Mbps			
IPSec VPN Throughput (1024B TCP w/Fastpath)	100 Mbps	175 Mbps	250 Mbps	300 Mbps	400 Mbps	700 Mbps			
Cisco Firepower Device Manager (local management)	Yes	Yes	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 DI	NS threat intellig	ence					
Cisco Firepower NGIPS		passively detec ompromise (loC	t endpoints and c) intelligence	infrastructure fo	or threat correlat	tion and			
Cisco AMP for Networks	persistent malv	vare, addressin	blocking, tracking g the attack con ith Cisco AMP fe	tinuum both dur	ring and after at	tacks.			
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-lead	ding Collective S	Security Intellige	nce (CSI) from	the Cisco Talos	Group			
Third-party and open- source ecosystem		ntegrations with new and specific	third-party proc threats	ducts; Snort [®] and	d OpenAppID co	ommunity			

Features	*5506	5508	5516	5525	5545	5555		
High availability and clustering	Active/standby							
Cisco Trust Anchor Technologies			clude Trust Anch the section belo	-	s for supply cha details	in and software		

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.

*ASA-5506 tested with FTD version 6.2.3.

Table 2.	ASA Performance a	and capabilities	on ASA !	5500 appliances
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Features	5506	5508	5516	5525	5545	5555		
Stateful inspection firewall throughput ¹	750 Mbps	1 Gbps	1.8 Gbps	2 Gbps	3Gbps	4 Gbps		
Stateful inspection firewall throughput (multiprotocol) ²	300 Mbps	500 Mbps	900 Mbps	1 Gbps	1.5 Gbps	2 Gbps		
Concurrent firewall connections	50K	100K	250K	500K	750K	1 million		
New connections per second	5K	10K	20K	20K	30K	50K		
IPsec VPN throughput (450B UDP L2L test)	100 Mbps	175 Mbps	250 Mbps	300 Mbps	400 Mbps	700 Mbps		
Security contexts (included; maximum)	N/A	2; 5	2; 5	2; 20	2; 50	2; 100		
High availability	Active/Standby	Active/active and active/standby	Active/active and active/standby	Active/active and active/standby	Active/active and active/standby	Active/active and active/standby		
Scalability	VPN Load Baland	cing						
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, loca	al management fo	or small-scale de	ployments				

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

Feature	Cisco ASA 5506-X	Cisco ASA 5506H-X	Cisco ASA 5508-X	Cisco ASA 5516-X	Cisco ASA 5525-X	Cisco ASA 5545-X	Cisco ASA 5555-X
Form factor	Desktop, rack mountable	Desktop, rack mountable, wall mountable, DIN-Rail	1 rack unit (RU), 19-in. rack- mountable	1 rack unit (RU), 19-in. rack- mountable	1RU, 19-in. rack- mountable	1RU, 19-in. rack- mountable	1RU, 19- in. rack- mountable
Dimensions	1.72 x 7.871 x 9.23 in.	2.72 x 9.05 x 9.05 in.	1.72 x 17.2 x 11.288 in.	1.72 x 17.2 x 11.288 in.	1.75 x 17.5 x 14.25 in.	1.67 x 16.7 x 19.1 in.	1.67 x 16.7 x 19.1 in.
(H x W x D)	(4.369 x 19.992 x 23.444 cm)	(6.9 x 23.0 x 23.0 cm)	(4.369 x 43.688 x 28.672 cm)	(4.369 x 43.688 x 28.672 cm)	(4.45 x 20.04 x 36.20 cm)	(4.24 x 42.9 x 48.4 cm)	(4.24 x 42.9 x 48.4 cm)
Integrated I/O	8 x 1GE	4 x 1GE	8 x 1GE	8 x 1GE	8 x 1GE	8 x 1GE	8 x 1GE
Expansion I/O	N/A	N/A	N/A	N/A	6 GE copper or 6 GE SFP	6 GE copper or 6 GE SFP	6 GE copper or 6 GE SFP
Expansion slot	N/A	N/A	N/A	N/A	1 interface card	1 interface card	1 interface card
Dedicated management port	Yes (Shared)	Yes (Shared)	Yes (Shared)	Yes (Shared)	Yes (1 GE)	Yes (1 GE)	Yes (1 GE)
Serial ports	1 RJ-45 and Mini USB console	1 RJ-45 and Mini USB console	1 RJ-45 and Mini USB console	1 RJ-45 and Mini USB console	1 RJ-45 console	1 RJ-45 console	1 RJ-45 console
Solid-state drive	50 GB mSata ⁶	50 GB mSata tested for heat	80 GB mSata ⁶	100 GB mSata ⁶	1 slot, 120 GB MLC SED	2 slots, RAID 1, 120 GB MLC SED	2 slots, RAID 1, 120 GB MLC SED
USB 2.0 ports	USB port type 'A', High Speed 2.0	USB port type 'A', High Speed 2.0	USB port type 'A', High Speed 2.0	USB port type 'A', High Speed 2.0	2	2	2
Operating param	ieters						
Temperature	32 to 104°F (0 to 40 °C)	-4 to 140°F (-20 to 60 °C)	32 to 104°F (0 to 40 °C)	32 to 104°F (0 to 40 °C)	23 to 104° F (-5 to 40° C)	23 to 104° F (-5 to 40° C)	23 to 104°F (-5 to 40°C)
Relative humidity	90 percent non- condensing	95 percent non- condensing	10 to 90 percent non- condensing	10 to 90 percent non- condensing	10 to 90 percent non- condensing	10 to 90 percent non- condensing	10 to 90 percent non- condensing
Altitude	Designed and tested for 0 to	Designed and tested	Designed and tested for 0 to	Designed and tested	Designed and tested for 0 to	Designed and tested for 0 to	Designed and tested

 Table 3.
 Cisco ASA 5500-X series next-generation firewalls

Feature	Cisco ASA	Cisco ASA	Cisco ASA	Cisco ASA	Cisco ASA	Cisco ASA	Cisco ASA
	5506-X	5506H-X	5508-X	5516-X	5525-X	5545-X	5555-X
	10,000 ft (3048 m)	for 0 to 10,000 ft (3050 m)	10,000 ft (3048 m)	for 0 to 10,000 ft (3048 m)	10,000 ft (3050 m)	10,000 ft (3050 m)	for 0 to 10,000 ft (3050 m)
Acoustic noise	Fanless 0 dBA	Fanless 0 dBA	41.6 A- weighted decibels (dBA) type. 67.2 dBA max	41.6 dBA type 67.2 dBA max	64.2 dBA max	67.9 dBA max	67.9 dBA max
Non-operating p	arameters						
Temperature ¹	-13 to 158ºF (-25 to 70ºC)	-40 to 185ºF (-40 to 85ºC)	-13 to 158ºF (-25 to 70ºC)	-13 to 158ºF (-25 to 70ºC)	-13 to 158°F (-25 to 70°C)	-13 to 158°F (-25 to 70°C)	-13 to 158°F (-25 to 70°C)
Relative humidity	10 to 90 percent non- condensing	10 to 95 percent non- condensing	10 to 90 percent non- condensing	10 to 90 percent non- condensing	10 to 90 percent	10 to 90 percent	10 to 90 percent
Altitude	Designed and tested for 0 to 15,000 ft (4572 m)	Designed and tested for 0 to 15,000 ft (4572 m)	Designed and tested for 0 to 15,000 ft (4572 m)	Designed and tested for 0 to 15,000 ft (4572 m)	Designed and tested for 0 to 15,000 ft (4572 m)	Designed and tested for 0 to 15,000 ft (4572 m)	Designed and tested for 0 to 15,000 ft (4572 m)
Power input (per	power supply)						
AC range line voltage	External, 90 to 240 volts alternating current (VAC)	External, 90 to 240 volts alternating current (VAC)	External, 90 to 240 volts alternating current (VAC)	External, 90 to 240 volts alternating current (VAC)	100 to 240 VAC	100 to 240 VAC	100 to 240 VAC
AC normal line voltage	90 to 240 VAC	90 to 240 VAC	91 to 240 VAC	92 to 240 VAC	100 to 240 VAC	100 to 240 VAC	100 to 240 VAC
AC current	N/A	N/A	0.25AC amps	0.25AC amps	4.85A	5A, 100 to 120V 2.5A, 200 to 240V	5A, 100 to 120V 2.5A, 200 to 240V
AC frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Dual-power supplies	None	None	None	None	None	Yes	Yes
DC domestic line voltage	N/A	N/A	N/A	N/A	-40.5 to 56 VDC (-48 VDC nominal)	-40.5 to 56 VDC (-48 VDC nominal)	-40.5 to 56 VDC (-48 VDC nominal)
DC international line voltage	N/A	N/A	N/A	N/A	-55 to -72 VDC (-60 VDC	-55 to -72 VDC (-60 VDC	-55 to -72 VDC (-60 VDC

Feature	Cisco ASA 5506-X	Cisco ASA 5506H-X	Cisco ASA 5508-X	Cisco ASA 5516-X	Cisco ASA 5525-X	Cisco ASA 5545-X	Cisco ASA 5555-X
					nominal)	nominal)	nominal)
DC current	N/A	N/A	N/A	N/A	15A (maximum input)	15A (maximum input)	15A (maximum input)

Feature	Cisco ASA 5506-X	Cisco ASA 5506H-X	Cisco ASA 5508-X	Cisco ASA 5516-X	Cisco ASA 5525-X	Cisco ASA 5545-X	Cisco ASA 5555-X		
Output									
Steady state	12V @2.5A	5V @3.6A	12V @ 3.0A	12V @ 3.0A	75W	86W	90W		
Maximum peak	12V @ 5A	5V @4.4A	12V @ 5.0A	12V @ 5.0A	108W	125W	134W		
Maximum heat dissipation	205 Btu/hr	75 Btu/hr	205 Btu/hr	205 Btu/hr	369 Btu/hr	427 Btu/hr	458 Btu/hr		
Weight (with AC power supply)	4 lb (1.82 kg)	7 lb (3.18 kg)	8 lb (3 kg)	8 lb (3 kg)	22.0 lb (10 kg)	16.82 lb (7.63 kg) with single power supply 18.86 lb (8.61 kg) with dual power supply	16.82 lb (7.63 kg) with single power supply 18.86 lb (8.61 kg) with dual power supply		

¹ Derate the maximum operating temperature 1.5° C per 1000 ft above sea level.

Table 4.	Cisco ASA 5500	Series regulatory,	safety, and EMC	compliance
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Specification	Description
Regulatory compliance	Products comply with CE markings per directives 2004/108/EC and 2006/108/EC
Safety	 UL 60950-1 CAN/CSA-C22.2 No. 60950-1 EN 60950-1 IEC 60950-1 AS/NZS 60950-1 GB4943
EMC: Emissions	 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 VCCI Class A EN61000-3-2 EN61000-3-3 KN22 Class A CNS13438 Class A EN300386 TCVN7189
EMC: Immunity	• EN55024 • CISPR24

Specification	Description
	• 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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