

Cisco ASA 5500 Series Adaptive Security Appliances

Cisco® ASA 5500 Series Adaptive Security Appliances deliver a robust suite of highly integrated, market-leading security services for small and medium-sized businesses (SMBs), enterprises, and service providers—in addition to providing unprecedented services flexibility, modular scalability, feature extensibility, and lower deployment and operations costs.

Cisco ASA 5500 Series Adaptive Security Appliances are purpose-built solutions that integrate world-class firewall, unified communications security, VPN, intrusion prevention (IPS), and content security services in a unified platform. The series builds upon proven technologies from Cisco PIX® 500 Series Security Appliances, Cisco IPS 4200 Series Sensors, and Cisco VPN 3000 Series Concentrators.

Cisco ASA 5500 Series Adaptive Security Appliances are a key component of the Cisco Self-Defending Network. The Cisco ASA 5500 Series provides intelligent threat defense that stops attacks before they penetrate the network perimeter, controls network and application activity, and delivers secure remote access and site-to-site connectivity. The result is a powerful multifunction network security appliance family that provides security breadth, precision, and depth for protecting business networks of all sizes, while reducing the overall deployment and operations costs associated with implementing comprehensive multilayer security.

Figure 1. Cisco ASA 5500 Series Adaptive Security Appliances



The Cisco ASA 5500 Series helps businesses increase effectiveness and efficiency in protecting their networks and applications, while delivering exceptional investment protection through the following elements:

- **Market-proven security capabilities**—The Cisco ASA 5500 Series integrates multiple full-featured, high-performance security services, including application-aware firewall, SSL and IPsec VPN, IPS, antivirus, antispam, antiphishing, and web filtering services. These technologies deliver strong network- and application-layer security, user-based access control, worm mitigation, malware protection, improved employee productivity, instant messaging and peer-to-peer control, and secure remote user and site connectivity.

- **Extensible integrated services architecture**—The Cisco ASA 5500 Series offers businesses strong, adaptive protection from the fast-evolving threat environment through its unique combination of hardware and software extensibility and its powerful Modular Policy Framework (MPF). The innovative extensible multiprocessor design and software architecture of the Cisco ASA 5500 Series enables businesses to easily install additional high-performance security services through security services modules (SSMs) and security services cards (SSCs). This provides businesses with outstanding investment protection, while enabling them to expand the security services profile of their Cisco ASA 5500 Series, as their security and performance needs grow. All these services are easily managed through the powerful Cisco Modular Policy Framework, which allows businesses to create highly customized security policies while making it simple to add new security and networking services into their existing policies.
- **Reduced deployment and operations costs**—The Cisco ASA 5500 Series enables standardization on a single platform to reduce the overall operational cost of security. A common environment for configuration simplifies management and reduces training costs for staff, while the common hardware platform of the series reduces sparring costs. Additional efficiencies are realized by deploying integrated capabilities, obviating the need for the complex designs required to connect standalone solutions.
- **Comprehensive management interfaces**—The graphical Cisco Adaptive Security Device Manager (ASDM), a comprehensive command line interface (CLI), verbose syslog, and Simple Network Management Protocol (SNMP) support round out a rich complement of management options. Multi-unit deployments benefit greatly from Cisco Security Manager, a platform capable of managing distributed deployments of 5 to 5000 devices. The award-winning Cisco Security Monitoring, Analysis, and Response System (Cisco Security MARS) recognizes and correlates real network attacks and then rapidly defines how to stop them, thereby decreasing administrative overhead by reducing false positives and simplifying audit compliance.

The Cisco ASA 5500 Series

The Cisco ASA 5500 Series includes the Cisco ASA 5505, 5510, 5520, 5540, 5550, and 5580 Adaptive Security Appliances—purpose-built, high-performance security solutions that take advantage of Cisco's expertise in developing industry-leading, award-winning security and VPN solutions. Through the Cisco MPF, the Cisco ASA 5500 Series brings a new level of security and policy control to applications and networks. MPF enables highly customizable, flow-specific security policies that have been tailored to application requirements. The performance and extensibility of the Cisco ASA 5500 Series are enhanced through user-installable SSMs. This adaptable architecture enables businesses to rapidly deploy security services when and where they are needed, such as tailoring inspection techniques to specific application and user needs or adding additional intrusion prevention and content security services such as those delivered by the Adaptive Inspection and Prevention (AIP) and Content Security and Control (CSC) SSMs. Furthermore, the modular hardware architecture of the Cisco ASA 5500 Series, along with the powerful MPF, provides the flexibility to meet future network and security requirements, extending the outstanding investment protection provided by the Cisco ASA 5500 Series, and allowing businesses to adapt their network defenses to new threats as they arise.

All Cisco ASA 5500 Series appliances include maximum IPsec VPN users on the base system; SSL VPN is licensed and purchased separately. By converging SSL and IPsec VPN services with comprehensive threat defense technologies, the Cisco ASA 5500 Series provides highly customizable, granular network access tailored to meet the requirements of diverse deployment environments, while providing advanced endpoint and network-level security.

Cisco ASA 5505 Adaptive Security Appliance

The Cisco ASA 5505 Adaptive Security Appliance is a next-generation, full-featured security appliance for small business, branch office, and enterprise teleworker environments. The Cisco ASA 5505 delivers high-performance firewall, SSL and IPsec VPN, and rich networking services in a modular, "plug-and-play" appliance. Using the integrated Cisco ASDM, the Cisco ASA 5505 can be rapidly deployed and easily managed, enabling businesses to minimize operations costs. The Cisco ASA 5505 features a flexible 8-port 10/100 Fast Ethernet switch, whose ports can be dynamically grouped to create up to three separate VLANs for home, business, and Internet traffic for improved network segmentation and security. The Cisco ASA 5505 provides two Power over Ethernet (PoE) ports, enabling simplified deployment of Cisco IP phones with zero-touch secure voice over IP (VoIP) capabilities, and deployment of external wireless access points for extended network mobility. High-performance intrusion prevention and worm mitigation service is available with the addition of AIP SSC. Multiple USB ports can be used to enable additional services and capabilities in the future.

As business needs grow, customers can install a Security Plus upgrade license, enabling the Cisco ASA 5505 to scale to support a higher connection capacity and up to 25 IPsec VPN users, add full DMZ support, and integrate into switched network environments through VLAN trunking support. Furthermore, this upgrade license maximizes business continuity by enabling support for redundant ISP connections and stateless Active/Standby high-availability services.

Businesses can also extend the Cisco ASA 5505's VPN service by enabling SSL VPN remote access to support various mobile workers and business partners. Cisco Secure Remote-Access Solution deployments can scale up to 25 SSL VPN concurrent users on each Cisco ASA 5505 by installing an SSL VPN upgrade license.

This combination of market-leading security and VPN services, advanced networking features, flexible remote management capabilities, and future extensibility makes the Cisco ASA 5505 an excellent choice for businesses requiring a best-in-class small business, branch office, or enterprise teleworker security solution.

Table 1 lists features of the Cisco ASA 5505.

Table 1. Cisco ASA 5505 Adaptive Security Appliance Platform Capabilities and Capacities

| Feature | Description |
|-------------------------------------|--|
| Firewall Throughput | Up to 150 Mbps |
| Maximum Firewall and IPS Throughput | Up to 75 Mbps with AIP SSC-5 |
| VPN Throughput | Up to 100 Mbps |
| Concurrent Sessions | 10,000/25,000** |
| IPsec VPN Peers | 10; 25** |
| SSL VPN Peer License Levels* | 2, 10, or 25 |
| Interfaces | 8-port Fast Ethernet switch with dynamic port grouping (including 2 PoE ports) |
| Virtual Interfaces (VLANs) | 3 (no trunking support) / 20 (with trunking support)** |
| High Availability | Not supported; stateless Active/Standby and redundant ISP support** |

* Separately licensed feature; includes two with the base system

** Upgrade available with Cisco ASA 5505 Security Plus license

Cisco ASA 5510 Adaptive Security Appliance

The Cisco ASA 5510 Adaptive Security Appliance delivers advanced security and networking services for small and medium-sized businesses and enterprise remote/branch offices in an easy-to-deploy, cost-effective appliance. These services can be easily managed and monitored by the integrated, Cisco ASDM application, thus reducing the overall deployment and operations costs associated with providing this high level of security. The Cisco ASA 5510 Adaptive Security Appliance provides high-performance firewall and VPN services and five integrated 10/100 Fast Ethernet interfaces. It optionally provides high-performance intrusion prevention and worm mitigation services through the AIP SSM, or comprehensive malware protection services through the CSC SSM. This unique combination of services on a single platform makes the Cisco ASA 5510 an excellent choice for businesses requiring a cost-effective, extensible, DMZ-enabled security solution.

As business needs grow, customers can install a Security Plus license, upgrading two of the Cisco ASA 5510 Adaptive Security Appliance interfaces to Gigabit Ethernet and enabling integration into switched network environments through VLAN support. This upgrade license maximizes business continuity by enabling Active/Active and Active/Standby high-availability services. Using the optional security context capabilities of the Cisco ASA 5510 Adaptive Security Appliance, businesses can deploy up to five virtual firewalls within an appliance to enable compartmentalized control of security policies on a departmental level. This virtualization strengthens security and reduces overall management and support costs while consolidating multiple security devices into a single appliance.

Businesses can extend their SSL and IPsec VPN capacity to support a larger number of mobile workers, remote sites, and business partners. Businesses can scale up to 250 SSL VPN peers on each Cisco ASA 5510 by installing an SSL VPN upgrade license; Up to 250 IPsec VPN peers are supported on the base platform.

VPN capacity and resiliency can also be increased by taking advantage of the Cisco ASA 5510's integrated VPN clustering and load-balancing capabilities (available with a Security Plus license). The Cisco ASA 5510 supports up to 10 appliances in a cluster, offering a maximum of 2500 SSL VPN peers or 2500 IPsec VPN peers per cluster. For business continuity and event planning, the Cisco ASA 5510 can also benefit from the Cisco VPN FLEX licenses, which enable administrators to react to or plan for short-term bursts of concurrent SSL VPN remote-access users, for up to a 2-month period.

Table 2 lists features of the Cisco ASA 5510.

Table 2. Cisco ASA 5510 Adaptive Security Appliance Platform Capabilities and Capacities

| Feature | Description |
|--|--|
| Firewall Throughput | Up to 300 Mbps |
| Maximum Firewall and IPS Throughput | <ul style="list-style-type: none"> Up to 150 Mbps with AIP SSM-10 Up to 300 Mbps with AIP SSM-20 |
| VPN Throughput | Up to 170 Mbps |
| Concurrent Sessions | 50,000; 130,000*** |
| IPsec VPN Peers | 250 |
| SSL VPN Peer License Levels* | 2, 10, 25, 50, 100, or 250 |
| Security Contexts | Up to 5** |
| Interfaces*** | 5 Fast Ethernet ports; 2 Gigabit Ethernet + 3 Fast Ethernet**** |
| Virtual Interfaces (VLANs) | 50; 100*** |
| Scalability*** | VPN clustering and load balancing |
| High Availability | Not supported; Active/Active****, Active/Standby**** |

* Separately licensed feature; includes two with the base system

** Separately licensed feature; includes two with the Cisco ASA 5510 Security Plus license

*** Upgrade available with Cisco ASA 5510 Security Plus license

**** Available for the firewall feature set

Cisco ASA 5520 Adaptive Security Appliance

The Cisco ASA 5520 Adaptive Security Appliance delivers security services with Active/Active high availability and Gigabit Ethernet connectivity for medium-sized enterprise networks in a modular, high-performance appliance. With four Gigabit Ethernet interfaces and support for up to 100 VLANs, businesses can easily deploy the Cisco ASA 5520 into multiple zones within their network. The Cisco ASA 5520 Adaptive Security Appliance scales with businesses as their network security requirements grow, delivering solid investment protection.

Businesses can extend their SSL and IPsec VPN capacity to support a larger number of mobile workers, remote sites, and business partners. Businesses can scale up to 750 SSL VPN peers on each Cisco ASA 5520 by installing an SSL VPN upgrade license; 750 IPsec VPN peers are supported on the base platform. VPN capacity and resiliency can be increased by taking advantage of the Cisco ASA 5520's integrated VPN clustering and load-balancing capabilities. The Cisco ASA 5520 supports up to 10 appliances in a cluster, offering a maximum of 7500 SSL VPN peers or 7500 IPsec VPN peers per cluster. For business continuity and event planning, the Cisco ASA 5520 can also benefit from the Cisco VPN FLEX licenses, which enable administrators to react to or plan for short-term bursts of concurrent SSL VPN remote-access users, for up to a 2-month period.

The advanced application-layer security and content security defenses provided by the Cisco ASA 5520 can be extended by deploying the high-performance intrusion prevention and worm mitigation capabilities of the AIP SSM, or the comprehensive malware protection of the CSC SSM. Using the optional security context capabilities of the

Cisco ASA 5520 Adaptive Security Appliance, businesses can deploy up to 20 virtual firewalls within an appliance to enable compartmentalized control of security policies on a departmental level. This virtualization strengthens security and reduces overall management and support costs while consolidating multiple security devices into a single appliance.

Table 3 lists features of the Cisco ASA 5520.

Table 3. Cisco ASA 5520 Adaptive Security Appliance Platform Capabilities and Capacities

| Feature | Description |
|--|--|
| Firewall Throughput | Up to 450 Mbps |
| Maximum Firewall and IPS Throughput | <ul style="list-style-type: none"> • Up to 225 Mbps with AIP SSM-10 • Up to 375 Mbps with AIP SSM-20 • Up to 450 Mbps with AIP SSM-40 |
| VPN Throughput | Up to 225 Mbps |
| Concurrent Sessions | 280,000 |
| IPsec VPN Peers | 750 |
| SSL VPN Peer License Levels* | 2, 10, 25, 50, 100, 250, 500, or 750 |
| Security Contexts* | Up to 20 |
| Interfaces | 4 Gigabit Ethernet ports and 1 Fast Ethernet port |
| Virtual Interfaces (VLANs) | 150 |
| Scalability | VPN clustering and load balancing |
| High Availability | Active/Active**, Active/Standby |

*Separately licensed feature; includes two with base system

**Available for the firewall feature set

Cisco ASA 5540 Adaptive Security Appliance

The Cisco ASA 5540 Adaptive Security Appliance delivers high-performance, high-density security services with Active/Active high availability and Gigabit Ethernet connectivity for medium-sized and large enterprise and service-provider networks, in a reliable, modular appliance. With four Gigabit Ethernet interfaces and support for up to 100 VLANs, businesses can use the Cisco ASA 5540 to segment their network into numerous zones for improved security. The Cisco ASA 5540 Adaptive Security Appliance scales with businesses as their network security requirements grow, delivering exceptional investment protection and services scalability. The advanced network and application-layer security services and content security defenses provided by the Cisco ASA 5540 Adaptive Security Appliance can be extended by deploying the AIP SSM for high-performance intrusion prevention and worm mitigation.

Businesses can scale their SSL and IPsec VPN capacity to support a larger number of mobile workers, remote sites, and business partners. Businesses can scale up to 2500 SSL VPN peers on each Cisco ASA 5540 by installing an SSL VPN upgrade license; 5000 IPsec VPN peers are supported on the base platform. VPN capacity and resiliency can also be increased by taking advantage of the Cisco ASA 5540's integrated VPN clustering and load-balancing capabilities. The Cisco ASA 5540 supports up to 10 appliances in a cluster, supporting a maximum of 25,000 SSL VPN peers or 50,000 IPsec VPN peers per cluster. For business continuity and event planning, the ASA 5540 can also benefit from the Cisco VPN FLEX licenses, which enable administrators to react to or plan for short-term bursts of concurrent SSL VPN remote-access users, for up to a 2-month period.

Using the optional security context capabilities of the Cisco ASA 5540 Adaptive Security Appliance, businesses can deploy up to 50 virtual firewalls within an appliance to enable compartmentalized control of security policies on a per-department or per-customer basis, and deliver reduced overall management and support costs.

Table 4 lists features of the Cisco ASA 5540.

Table 4. Cisco ASA 5540 Adaptive Security Appliance Platform Capabilities and Capacities

| Feature | Description |
|--|--|
| Firewall Throughput | Up to 650 Mbps |
| Maximum Firewall and IPS Throughput | <ul style="list-style-type: none"> • Up to 500 Mbps with AIP-SSM-20 • Up to 650 Mbps with AIP-SSM-40 |
| VPN Throughput | Up to 325 Mbps |
| Concurrent Sessions | 400,000 |
| IPsec VPN Peers | 5000 |
| SSL VPN Peer License Levels* | 2, 10, 25, 50, 100, 250, 500, 750, 1000, and 2500 |
| Security Contexts | Up to 50* |
| Interfaces | 4 Gigabit Ethernet ports and 1 Fast Ethernet port |
| Virtual Interfaces (VLANs) | 200 |
| Scalability | VPN clustering and load balancing |
| High Availability | Active/Active**, Active/Standby |

*Separately licensed feature; includes two with base system

**Available for the firewall feature set

Cisco ASA 5550 Adaptive Security Appliance

The Cisco ASA 5550 Adaptive Security Appliance delivers gigabit-class security services with Active/Active high availability and fiber and Gigabit Ethernet connectivity for large enterprise and service-provider networks in a reliable, 1-rack-unit form factor. Using its eight Gigabit Ethernet interfaces, four Small Form-Factor Pluggable (SFP) fiber interfaces*, and support for up to 200 VLANs, businesses can segment their network into numerous high-performance zones for improved security.

The Cisco ASA 5550 Adaptive Security Appliance scales with businesses as their network security requirements grow, delivering exceptional investment protection and services scalability. Businesses can scale their SSL and IPsec VPN capacity to support a larger number of mobile workers, remote sites, and business partners.

Businesses can scale up to 5000 SSL VPN peers on each Cisco ASA 5550 by installing an SSL VPN upgrade license; 5000 IPsec VPN peers are supported on the base platform. VPN capacity and resiliency can also be increased by taking advantage of the Cisco ASA 5550's integrated VPN clustering and load-balancing capabilities. The Cisco ASA 5550 supports up to 10 appliances in a cluster, supporting a maximum of 50,000 SSL VPN peers or 50,000 IPsec VPN peers per cluster. For business continuity and event planning, the ASA 5550 can also benefit from the Cisco VPN FLEX licenses, which enable administrators to react to or plan for short-term bursts of concurrent SSL VPN remote-access users, for up to a 2-month period.

Using the optional security context capabilities of the Cisco ASA 5550 Adaptive Security Appliance, businesses can deploy up to 50 virtual firewalls within an appliance to enable compartmentalized control of security policies on a per-department or per-customer basis, and deliver reduced overall management and support costs.

Note: The system provides a total of 12 Gigabit Ethernet ports, of which only 8 can be in service at any time. Businesses can choose between copper or fiber connectivity, providing flexibility for data center, campus, or enterprise edge connectivity.

Table 5 lists features of the Cisco ASA 5550.

Table 5. Cisco ASA 5550 Adaptive Security Appliance Platform Capabilities and Capacities

| Feature | Description |
|------------------------------|---|
| Firewall Throughput | Up to 1.2 Gbps |
| VPN Throughput | Up to 425 Mbps |
| Concurrent Sessions | 650,000 |
| IPsec VPN Peers | 5000 |
| SSL VPN Peer License Levels* | 2,10, 25, 50, 100, 250, 500, 750, 1000, 2500, and 5000 |
| Security Contexts | Up to 50* |
| Interfaces | 8 Gigabit Ethernet ports, 4 SFP fiber ports, and 1 Fast Ethernet port |
| Virtual Interfaces (VLANs) | 250 |
| Scalability | VPN clustering and load balancing |
| High Availability | Active/Active**, Active/Standby |

*Separately licensed feature; includes two with base system

**Available for the firewall feature set

Cisco ASA 5580 Adaptive Security Appliances

The Cisco ASA 5580-20 and 5580-40 Adaptive Security Appliances deliver multigigabit security services for large enterprise, data center, and service-provider networks in a robust, 4-rack-unit form factor. The Cisco ASA 5580 accommodates high-density copper and optical interfaces with scalability from Fast Ethernet to 10Gigabit Ethernet, enabling unparalleled security and deployment flexibility. Cisco ASA 5580 Adaptive Security Appliances include six interface card expansion slots with support for up to 24 Gigabit Ethernet interfaces or up to 12 10Gigabit Ethernet interfaces that simplify provisioning and enable campus segmentation. Furthermore, this high-density design enables security virtualization while retaining physical segmentation desired in managed security and infrastructure consolidation applications.

The Cisco ASA 5580 Series are offered at two performance levels: the Cisco ASA 5580-20 with 5 Gbps of real-world firewall performance, and the high-end Cisco ASA 5580-40 with 10 Gbps of real-world firewall performance. Their multicore, multiprocessor architecture delivers radical scalability for the most demanding network security and VPN concentration applications. Real-time applications can be transparently secured thanks to the extremely low latency, high session concurrency, and connection setup rates.

Businesses can scale their SSL and IPsec VPN capacity to support a larger number of mobile workers, remote sites, and business partners. Businesses can scale up to 10,000 SSL VPN peers on each Cisco ASA 5550 by installing an SSL VPN upgrade license; 10,000 IPsec VPN peers are supported on the base platform. Cisco ASA 5580 Adaptive Security Appliances can also be clustered to provide improved reliability and scalability, with support for up to 100,000 SSL or IPsec remote-access clients when deploying 10 appliances in a cluster. For business continuity and event planning, the ASA 5580 can also benefit from the Cisco VPN FLEX licenses, which enable administrators to react to or plan for short-term bursts of concurrent SSL VPN remote-access users, for up to a 2-month period.

Additional features, including security virtualization through the use of security contexts and VLANs, increase service velocity while reducing operational and administrative overhead.

Table 6 lists features of the Cisco ASA 5580 Security Appliances.

Table 6. Cisco ASA 5580 Adaptive Security Appliance Platform Capabilities and Capacities

| Feature | ASA 5580-20 | ASA 5580-40 |
|-------------------------------------|--|--|
| Maximum Firewall Throughput | 5 Gbps (real-world HTTP), 10 Gbps (jumbo frames) | 10 Gbps (real-world HTTP), 20 Gbps (jumbo frames) |
| Maximum VPN Throughput | 1 Gbps | 1 Gbps |
| Concurrent Sessions | 1,000,000 | 2,000,000 |
| IPsec VPN Peers | 10000 | 10000 |
| SSL VPN Peer License Levels* | 2,10, 25, 50, 100, 250, 500, 750, 1000, 2500, 5000, and 10,000 | 2,10, 25, 50, 100, 250, 500, 750, 1000, 2500, 5000, and 10000 |
| Security Contexts | Up to 50* | Up to 50* |
| Interfaces | 2 Gigabit Ethernet management | 2 Gigabit Ethernet management |
| Interface Card Slots | 6 | 6 |
| Interface Card Options | <ul style="list-style-type: none"> • 4 Port 10/100/1000, RJ45 • 4 Port Gigabit Ethernet fiber, SR, LC • 2 Port 10Gigabit Ethernet fiber, SR, LC | <ul style="list-style-type: none"> • 4 Port 10/100/1000, RJ45 • 4 Port Gigabit Ethernet fiber, SR, LC • 2 Port 10Gigabit Ethernet fiber, SR, LC |
| Virtual Interfaces (VLANs) | 100 | 100 |
| Scalability | VPN clustering and load balancing | VPN clustering and load balancing |
| High Availability | Active/Active**, Active/Standby | Active/Active**, Active/Standby |
| Redundant Power | Supported, second power supply optional | Supported, second power supply optional |






* Separately licensed feature; includes two with base system

****Available for the firewall feature set

Specifications

Table 7 and 8 provides a comparison of the Cisco ASA 5505, 5510, 5520, 5540, 5550, and 5580 Adaptive Security Appliances.

Table 7. Characteristics of Cisco ASA 5500 Series Adaptive Security Appliances



| Feature | Cisco ASA 5505 | Cisco ASA 5510 | Cisco ASA 5520 | Cisco ASA 5540 | Cisco ASA 5550 |
|---|---|--|--|--|---|
| |  |  |  |  |  |
| Users/Nodes | 10, 50, or unlimited | Unlimited | Unlimited | Unlimited | Unlimited |
| Firewall Throughput | Up to 150 Mbps | Up to 300 Mbps | Up to 450 Mbps | Up to 650 Mbps | Up to 1.2 Gbps |
| Maximum Firewall and IPS Throughput | <ul style="list-style-type: none"> Up to 150 Mbps with AIP-SSC-5 | <ul style="list-style-type: none"> Up to 150 Mbps with AIP-SSM-10 Up to 300 Mbps with AIP-SSM-20 | <ul style="list-style-type: none"> Up to 225 Mbps with AIP-SSM-10 Up to 375 Mbps with AIP-SSM-20 Up to 450 Mbps with AIP-SSM-40 | <ul style="list-style-type: none"> Up to 500 Mbps with AIP-SSM-20 Up to 650 Mbps with AIP-SSM-40 | Not available |
| 3DES/AES VPN Throughput | Up to 100 Mbps | Up to 170 Mbps | Up to 225 Mbps | Up to 325 Mbps | Up to 425 Mbps |
| IPsec VPN Peers | 10; 25* | 250 | 750 | 5000 | 5000 |
| SSL VPN Peers* Included/ Maximum) | 2/25 | 2/250 | 2/750 | 2/2500 | 2/5000 |
| Concurrent Connections | 10,000; 25,000* | 50,000; 130,000* | 280,000 | 400,000 | 650,000 |
| New Connections/ Second | 4000 | 9000 | 12,000 | 25,000 | 36,000 |
| Integrated Network Ports | 8-port Fast Ethernet switch (including 2 PoE ports) | 5 Fast Ethernet ports; 2 Gigabit Ethernet + 3 Fast Ethernet ports* | 4 Gigabit Ethernet, 1 Fast Ethernet | 4 Gigabit Ethernet, 1 Fast Ethernet | 8 Gigabit Ethernet, 4 SFP Fiber, 1 Fast Ethernet |
| Virtual Interfaces (VLANs) | 3 (no trunking support)/20 (with trunking support)* | 50 /100* | 150 | 200 | 250 |
| Security Contexts (Included/ Maximum)* | 0/0 | 0/0 (Base); 2/5 (Security Plus) | 2/20 | 2/50 | 2/50 |
| High Availability | Not supported; stateless Active/Standby and redundant ISP support* | Not supported; Active/Active and Active/ Standby** | Active/Active and Active/ Standby | Active/Active and Active/ Standby | Active/Active and Active/ Standby |
| Expansion Slot | 1, SSC | 1, SSM | 1, SSM | 1, SSM | 0 |
| User-Accessible Flash Slot | 0 | 1 | 1 | 1 | 1 |
| USB 2.0 Ports | 3 (1 on front, 2 on rear) | 2 | 2 | 2 | 2 |
| Serial Ports | 1 RJ-45 console | 2 RJ-45, console and | 2 RJ-45, console and | 2 RJ-45, console and | 2 RJ-45, console and |

| Feature | Cisco ASA 5505 | Cisco ASA 5510 | Cisco ASA 5520 | Cisco ASA 5540 | Cisco ASA 5550 |
|---|---|-----------------------|--|-----------------------|-----------------------|
| | | auxiliary | auxiliary | auxiliary | auxiliary |
| Rack-Mountable | Yes, with rack-mount kit (available in the future) | Yes | Yes | Yes | Yes |
| Wall-Mountable | Yes, with wall-mount kit (available in the future) | Not Available | Not Available | Not Available | Not Available |
| Security Lock Slot (for Physical Security) | Yes | Not Available | Not Available | Not Available | Not Available |
| Technical Specifications | | | | | |
| Memory | 256 MB | 256 MB | 512 MB | 1 GB | 4 GB |
| Minimum System Flash | 64 MB | 64 MB | 64 MB | 64 MB | 64 MB |
| System Bus | Multibus architecture | Multibus architecture | Multibus architecture | Multibus architecture | Multibus architecture |
| Environmental Operating Ranges | | | | | |
| Operating | | | | | |
| Temperature | 32 to 104°F (0 to 40°C) | | 32 to 104°F (0 to 40°C) | | |
| Relative humidity | 5 to 95 percent noncondensing | | 5 to 95 percent noncondensing | | |
| Altitude | Designed and tested for: 0 to 9840 ft (3000 m). Agency approved for: 2000 m | | | | |
| Shock | 1.14 m/sec (45 in./sec) ½ sine input | | 1.14 m/sec (45 in./sec) 1/2 sine input | | |
| Vibration | 0.41 Grms2 (3 to 500 Hz) random input | | 0.41 Grms2 (3 to 500 Hz) random input | | |
| Acoustic noise | 0 dBa max | | 60 dBa max | | |
| Nonoperating | | | | | |
| Temperature | -13 to 158°F (-25 to 70°C) | | -13 to 158°F (-25 to 70°C) | | |
| Relative humidity | 5 to 95 percent noncondensing | | 5 to 95 percent noncondensing | | |
| Altitude | 0 to 15,000 ft (4570 m) | | 0 to 15,000 ft (4570 m) | | |
| Shock | 30 G | | 30 G | | |
| Vibration | 0.41 Grms2 (3 to 500 Hz) random input | | 0.41 Grms2 (3 to 500 Hz) random input | | |
| Power | | | | | |
| Input (per Power Supply) | | | | | |
| Range line voltage | 100 to 240 VAC | | 100 to 240 VAC | | |
| Normal line voltage | 100 to 240 VAC | | 100 to 240 VAC | | |
| Current | 1.8A | | 3A | | |
| Frequency | 50/60 Hz | | 47/63 Hz, single-phase | | |
| Output | | | | | |

| Feature | Cisco ASA 5505 | Cisco ASA 5510 | Cisco ASA 5520 | Cisco ASA 5540 | Cisco ASA 5550 |
|--|--|---|---|--|----------------|
| Steady state | 20W | | 150W | | |
| Maximum peak | 96W | | 190W | | |
| Maximum heat dissipation | 72 BTU/hr | | 648 BTU/hr | | |
| Physical Specifications | | | | | |
| Form Factor | Desktop | | 1 RU, 19-in. rack-mountable | | |
| Dimensions (H x W x D) | 1.75 x 7.89 x 6.87 in. (4.45 x 20.04 x 17.45 cm) | | 1.75 x 17.5 x 14.25 in. (4.45 x 20.04 x 36.20 cm) | | |
| Weight (with Power Supply) | 4.0 lb (1.8 kg) | 20.0 lb (9.07 kg) | | 22.0 lb (10 kg) | |
| Regulatory and Standards Compliance | | | | | |
| Safety | UL 60950, CSA C22.2 No. 60950, EN 60950 IEC 60950, AS/NZS60950 | | | | |
| Electromagnetic Compatibility (EMC) | CE marking, FCC Part 15 Class B, AS/NZS CISPR22 Class B, VCCI Class B, EN55022 Class B, CISPR22 Class B, EN61000-3-2, EN61000-3-3 | | CE marking, FCC Part 15 Class A, AS/NZS CISPR22 Class A, VCCI Class A, EN55022 Class A, CISPR22 Class A, EN61000-3-2, EN61000-3-3 | | |
| Industry Certifications | FIPS 140-2 Level 2. In process: Common Criteria EAL4+ US DoD Application-Level Firewall for Medium-Robustness Environments, and Common Criteria EAL4 for IPsec/SSL VPN | Common Criteria EAL4 US DoD Application-Level Firewall for Medium-Robustness Environments, Common Criteria EAL2 for IPS on AIP SSM-10 and -20, FIPS 140-2 Level 2, and NEBS Level 3. In process: Common Criteria EAL4+ US DoD Application-Level Firewall for Medium-Robustness Environments, and Common Criteria EAL4 for IPsec/SSL VPN | | FIPS 140-2 Level 2. In process: Common Criteria EAL4+ US DoD Application-Level Firewall for Medium-Robustness Environments, and Common Criteria EAL4 for IPsec/SSL VPN | |

* Available through an upgrade license

Table 8. Characteristics of Cisco ASA 5580 Series Adaptive Security Appliances

| Feature | Cisco ASA 5580-20 | Cisco ASA 5580-40 |
|---------------------------------------|--|--|
| |  |  |
| Users/Nodes | Unlimited | Unlimited |
| Firewall Throughput | Up to 5 Gbps (real-world HTTP), 10 Gbps (jumbo frames) | Up to 10 Gbps (real-world HTTP), 20 Gbps (jumbo frames) |
| 3DES/AES VPN Throughput | 1 Gbps | 1 Gbps |
| IPsec VPN Peers | 10,000 | 10,000 |
| SSL VPN Peers* | 2/10,000 | 2/10,000 |
| Concurrent Connections | 1,000,000 | 2,000,000 |
| New Connections/Second | 90,000 | 150,000 |
| Packets/Second (64 byte) | 2,500,000 | 4,000,000 |
| Integrated Network Ports | 2 Gigabit Ethernet management | 2 Gigabit Ethernet management |
| Interface Card Slots | 6 | 6 |
| Interface Card Options | <ul style="list-style-type: none"> • 4 Port 10/100/1000, RJ45 • 4 Port Gigabit Ethernet fiber, SR, LC • 2 Port 10Gigabit Ethernet fiber, SR, LC | <ul style="list-style-type: none"> • 4 Port 10/100/1000, RJ45 • 4 Port Gigabit Ethernet fiber, SR, LC • 2 Port 10Gigabit Ethernet fiber, SR, LC |
| Virtual Interfaces | 100 | 100 |
| Security Contexts* | 2/50 | 2/50 |
| High Availability | Active/Active and Active/Standby | Active/Active and Active/Standby |
| Redundant Power | Supported, second power supply optional | Supported, second power supply optional |
| Interface Expansion | 6 interface expansion card slots | 6 interface expansion card slots |
| USB 2.0 Ports | 2 | 2 |
| Serial Ports | 1 RJ-45, console | 1 RJ-45, console |
| Rack-Mountable | Yes, rails included | Yes, rails included |
| Technical Specifications | | |
| Memory | 8 GB | 12 GB |
| Minimum System Flash | 1 GB | 1 GB |
| System Bus | Multibus architecture | Multibus architecture |
| Environmental Operating Ranges | | |
| Operating | | |
| Operating temperature | 50 to 95°F (10 to 35°C) | |
| Relative humidity | 10 to 90 percent noncondensing | |

| Feature | Cisco ASA 5580-20 | Cisco ASA 5580-40 |
|--|---|-------------------|
| Altitude | Designed and tested for: 0 to 10,000 ft (3050 m). Agency Approved for: 2000 m | |
| Noise | 55 dBa max | |
| Nonoperating | | |
| Temperature | -22 to 140°F (-30 to 60°C) | |
| Relative humidity | 5 to 95 percent noncondensing | |
| Altitude | 0 to 30,000 ft (9144 m) | |
| Power | | |
| Input (per Power Supply) | | |
| Range line voltage | 100 to 240 VAC | |
| Normal line voltage | 100 to 240 VAC | |
| Current | 12A | |
| Frequency | 50/60 Hz | |
| Output | | |
| Steady state | 800W | |
| Maximum peak | 800W | |
| Maximum heat dissipation | 4070 BTU/hr | |
| Physical Specifications | | |
| Form Factor | 4 RU, 19-in. rack-mountable | |
| Dimensions (H x W x D) | 6.94 x 19 x 26.5 in. (17.6 x 48.3 x 67.3 cm) | |
| Weight (with Single Power Supply) | 66 lb (29.9 kg) | |
| Regulatory and Standards | | |
| Safety | UL 60950, CSA C22.2 No. 60950, EN 60950 IEC 60950, AS/NZS60950 | |
| Electromagnetic Compatibility (EMC) | CE marking, FCC Part 15 Class A, AS/NZS CISPR22 Class A, VCCI Class A, EN55022 Class A, CISPR22 Class A, EN61000-3-2, EN61000-3-3 | |

* Available through an upgrade license

Security Services Modules and Cards





The Cisco ASA 5500 Series brings a new level of integrated security performance to networks with its unique AIM services and multiprocessor hardware architecture. This architecture allows businesses to adapt and extend the high-performance security services profile of the Cisco ASA 5500 Series. Customers can add additional high-performance services using security services modules with dedicated security co-processors, and can custom-tailor flow-specific policies using a highly flexible policy framework. This adaptable architecture enables businesses to deploy new security services when and where they are needed, such as adding the broad range of intrusion prevention and advanced anti-worm services delivered by the AIP SSM and AIP SSC, or the comprehensive malware protection and content security services enabled by the CSC SSM. Further, the architecture allows Cisco to introduce new services to address new threats, delivering businesses outstanding investment protection for the Cisco ASA 5500 Series.

Cisco ASA 5500 Series Advanced Inspection and Prevention Module

The Cisco ASA 5500 Series AIP SSM and AIP SSC are inline, network-based solutions that accurately identifies, classifies, and stops malicious traffic before it affects business continuity for IPv4, IPv6, and hybrid IPv6 and IPv4 networks. They combine inline prevention services with innovative technologies, resulting in total confidence in the provided protection of the deployed IPS solution, without the fear of legitimate traffic being dropped. The AIP SSM and AIP SSC also offer comprehensive network protection through its unique ability to collaborate with other network security resources, providing a proactive approach to protecting the network. Accurate inline prevention technologies provide unparalleled confidence to take preventive action on a broader range of threats without the risk of dropping legitimate traffic. These unique technologies offer intelligent, automated, contextual analysis of data and help ensure that businesses are getting the most out of their intrusion prevention solutions. Furthermore, the AIP SSM and AIP SSC use multivector threat identification to protect the network from policy violations, vulnerability exploitations, and anomalous activity through detailed inspection of traffic in Layers 2 through 7.

Table 9 details the four AIP SSM and AIP SSC models that are available, and their respective performance and physical characteristics.

Table 9. Characteristics of Cisco ASA 5500 Series AIP SSMs

| Feature | Cisco ASA 5500 Series AIP SSC-5 | Cisco ASA 5500 Series AIP SSM-10 | Cisco ASA 5500 Series AIP SSM-20 | Cisco ASA 5500 Series AIP SSM-40 |
|--|---|--|--|--|
| |  |  |  |  |
| Concurrent Threat Mitigation Throughput (Firewall + IPS Services) | <ul style="list-style-type: none"> 75 Mbps with Cisco ASA 5505 | <ul style="list-style-type: none"> 150 Mbps with Cisco ASA 5510 225 Mbps with Cisco ASA 5520 | <ul style="list-style-type: none"> 300 Mbps with Cisco ASA 5510 375 Mbps with Cisco ASA 5520 500 Mbps with Cisco ASA 5540 | <ul style="list-style-type: none"> 450 Mbps with Cisco ASA 5520 650 Mbps with Cisco ASA 5540 |
| Technical Specifications | | | | |
| Memory | 512 MB | 1 GB | 2 GB | 4 GB |
| Flash | 512 MB | 256 MB | 256 MB | 2 GB |
| Environmental Operating Ranges | | | | |

| Feature | Cisco ASA 5500 Series AIP SSC-5 | Cisco ASA 5500 Series AIP SSM-10 | Cisco ASA 5500 Series AIP SSM-20 | Cisco ASA 5500 Series AIP SSM-40 |
|--|---|---|----------------------------------|----------------------------------|
| Operating | | | | |
| Temperature | 32 to 104°F (0 to 40°C) | | | |
| Relative humidity | 5 to 95 percent noncondensing | | | |
| Nonoperating | | | | |
| Temperature | -13 to 158°F (-25 to 70°C) | | | |
| Power consumption | 30W maximum | 90W maximum | | |
| Physical Specifications | | | | |
| Dimensions (H x W x D) | 0.68 X 3.55 X 5.2 In (1.73 X 9.02 X 13.21 cm) | 1.70 x 6.80 x 12.25 in. (4.32 x 17.27 x 31.12 cm) | | |
| Weight (with Power Supply) | 0.42 lb (0.19 kg) | 3.00 lb (1.36 kg) | | |
| Regulatory and Standards Compliance | | | | |
| Safety | UL 60950, CSA C22.2 No. 60950, EN 60950 IEC 60950, AS/NZS60950 | | | |
| Electromagnetic Compatibility (EMC) | CE marking, FCC Part 15 Class A, AS/NZS CISPR22 Class A, VCCI Class A, EN55022 Class A, CISPR22 Class A, EN61000-3-2, EN61000-3-3 | | | |

Cisco ASA 5500 Series Content Security and Control Module

The Cisco ASA 5500 Series CSC SSM delivers industry-leading threat protection and content control at the Internet edge, providing comprehensive antivirus, antispymware, file blocking, antispam, antiphishing, URL blocking and filtering, and content filtering services in an easy-to-manage solution. The CSC SSM bolsters the Cisco ASA 5500 Series' strong security capabilities, providing customers with additional protection and control over the content of their business communications. The module provides additional flexibility and choice over the functioning and deployment of Cisco ASA 5500 Series appliances. Licensing options enable organizations to customize the features and capabilities to each group's needs, with features that include advanced content services and increased user capacity. The CSC SSM ships with a default feature set that provides antivirus, anti-spyware, and file blocking services. A Plus license is available for each CSC SSM at an additional charge, delivering capabilities such as anti-spam, anti-phishing, URL blocking and filtering, and content control services. Businesses can extend the user capacity of the CSC SSM by purchasing and installing additional user licenses. A detailed listing of these options is shown in Table 10 and in the CSC SSM data sheet.

Table 10. Characteristics of Cisco ASA 5500 Series CSC SSMs


| Feature | Cisco ASA 5500 Series CSC-SSM-10 | Cisco ASA 5500 Series CSC-SSM-20 |
|----------------------------|--|--|
| |  |  |
| Supported Platforms | <ul style="list-style-type: none"> • Cisco ASA 5510 • Cisco ASA 5520 | <ul style="list-style-type: none"> • Cisco ASA 5510 • Cisco ASA 5520 • Cisco ASA 5540 |

| Feature | Cisco ASA 5500 Series CSC-SSM-10 | Cisco ASA 5500 Series CSC-SSM-20 |
|---|---|---|
| Standard and Optional Features | | |
| Standard User License | 50 users | 500 users |
| Standard Feature Set | Antivirus, anti-spyware, file blocking | |
| Optional User Upgrades (Total Users) | <ul style="list-style-type: none"> • 100 users • 250 users • 500 users | <ul style="list-style-type: none"> • 750 users • 1000 users |
| Optional Feature Upgrades | Plus License-Adds anti-spam, anti-phishing, URL blocking and filtering, and content control | |
| Technical Specifications | | |
| Memory | 1 GB | 2 GB |
| System Flash | 256 MB | 256 MB |
| Environmental Operating Ranges | | |
| Operating | | |
| Temperature | 32 to 104°F (0 to 40°C) | |
| Relative Humidity | 10 to 90 percent, noncondensing | |
| Nonoperating | | |
| Temperature | -13 to 158°F (-25 to 70°C) | |
| Power consumption | 90W maximum | |
| Physical Specifications | | |
| Dimensions (H x W x D) | 1.70 x 6.80 x 12.25 in. (4.32 x 17.27 x 31.12 cm) | |
| Weight (With Power Supply) | 3.00 lb (1.36 kg) | |
| Regulatory and Standards Compliance | | |
| Safety | UL 60950, CSA C22.2 No. 60950, EN 60950 IEC 60950, AS/NZS60950 | |
| Electromagnetic Compatibility (EMC) | CE marking, FCC Part 15 Class A, AS/NZS CISPR22 Class A, VCCI Class A, EN55022 Class A, CISPR22 Class A, EN61000-3-2, EN61000-3-3 | |

Cisco ASA 5500 Series 4-Port Gigabit Ethernet Module

The Cisco ASA 4-Port Gigabit Ethernet SSM enables businesses to better segment network traffic into separate security zones, providing more granular security for their network environment. These zones can range from the Internet to internal corporate departments/sites to DMZs. This high-performance module supports both copper and optical connection options by including four 10/100/1000 copper RJ-45 ports and four SFP ports. Businesses can choose between copper or fiber connectivity for each of the four ports, providing flexibility for data center, campus, or enterprise edge connectivity (with a maximum of four ports in service concurrently). The module extends the I/O profile of the Cisco ASA 5500 Series to a total of five Fast Ethernet and four Gigabit Ethernet ports on the Cisco ASA 5510, and eight Gigabit Ethernet ports and one Fast Ethernet port on Cisco ASA 5520 and 5540 appliances (Table 11).




Table 11. Characteristics of Cisco ASA 5500 Series 4-Port Gigabit Ethernet SSM

| Feature | Cisco ASA 5500 Series 4-Port GE SSM |
|--|---|
| |  |
| Technical Specifications | |
| Integrated LAN Ports | Four 10/100/1000BASE-T (RJ) |
| Integrated SFP Ports | Four (Gigabit Ethernet Optical SFP 1000BASE-SX or LX/LH transceiver supported) |
| Environmental Operating Ranges | |
| Operating | |
| Temperature | 32 to 104°F (0 to 40°C) |
| Relative humidity | 5 to 95 percent noncondensing |
| Nonoperating | |
| Temperature | -13 to 158°F (-25 to 70°C) |
| Power consumption | 25W maximum |
| Physical Specifications | |
| Dimensions (H x W x D) | 1.70 x 6.80 x 12.25 in. (4.32 x 17.27 x 31.12 cm) |
| Weight (with Power Supply) | 2.00 lb (0.91 kg) |
| Regulatory and Standards Compliance | |
| Safety | UL 60950, CSA C22.2 No. 60950, EN 60950 IEC 60950, AS/NZS60950 |
| Electromagnetic Compatibility (EMC) | CE marking, FCC Part 15 Class A, AS/NZS CISPR22 Class A, VCCI Class A, EN55022 Class A, CISPR22 Class A, EN61000-3-2, EN61000-3-3 |

Cisco ASA 5580 Security Appliance Interface Cards

The Cisco ASA 5580 Adaptive Security Appliances are designed for ultimate interface flexibility and density with six interface card expansion slots supporting up to 24 Gigabit Ethernet ports; 12 10Gigabit Ethernet ports; or combinations thereof. These exceptional interface densities enable advanced security applications, including full-mesh high availability, multiple DMZs, virtual firewalls, and managed security. Gigabit Ethernet interfaces are available in 4-port copper or fiber configurations and 10Gigabit Ethernet is available in a 2-port fiber configuration. Gigabit Ethernet and 10Gigabit Ethernet fiber interfaces feature integrated short-range optics (SR) and an LC connector (Table 12).

Table 12. Characteristics of Cisco ASA 5580 Series Interface Cards

| Feature | Cisco ASA 5580 4-Port Gigabit Ethernet Copper | Cisco ASA 5580 4-Port Gigabit Ethernet Fiber | Cisco ASA 5580 2-Port 10Gigabit Ethernet Fiber |
|---------|---|--|---|
| |  |  |  |

| | | | |
|---|---|--|--|
| Integrated 10/100/1000 Ports | 4 | 0 | 0 |
| Integrated 1000BASE-SX Ports | 0 | 4 with integrated short range optics, LC connector | 0 |
| Integrated fiber 10 Gigabit Ethernet Ports | 0 | 0 | 2 with integrated short range optics, LC connector |
| Wiring Support | Category-5, unshielded twisted pair (UTP), 4-pair | Multimode fiber (62.5 μm or 50 μm) | Multimode fiber (62.5 μm or 50 μm) |
| Power Consumption | 4.95 W (3.3V @ 1.5 A) | 4.95 W (3.3V @ 1.5 A) | 14 W (12V @ 1.17 A) |
| Weight | Approx. 1lb | Approx. 1lb | Approx. 1lb |

Ordering Information

To place an order, visit the [Cisco Ordering Home Page](#). Table 13 provides ordering information for the Cisco ASA 5500 Series.

Table 13. Ordering Information

| Product Name | Part Number |
|--|--------------------|
| Cisco ASA 5500 Series Firewall Edition Bundles | |
| Cisco ASA 5505 10-User Bundle includes 8-port Fast Ethernet switch, 10 IPsec VPN peers, 2 SSL VPN peers, Triple Data Encryption Standard/Advanced Encryption Standard (3DES/AES) license | ASA5505-BUN-K9 |
| Cisco ASA 5505 10-User Bundle includes 8-port Fast Ethernet switch, 10 IPsec VPN peers, 2 SSL VPN peers, Data Encryption Standard (DES) license | ASA5505-K8 |
| Cisco ASA 5505 50-User Bundle includes 8-port Fast Ethernet switch, 10 IPsec VPN peers, 2 SSL VPN peers, 3DES/AES license | ASA5505-50-BUN-K9 |
| Cisco ASA 5505 Unlimited-User Bundle includes 8-port Fast Ethernet switch, 10 IPsec VPN peers, 2 SSL VPN peers, 3DES/AES license | ASA5505-UL-BUN-K9 |
| Cisco ASA 5505 Unlimited-User Security Plus Bundle includes 8-port Fast Ethernet switch, 25 IPsec VPN peers, 2 SSL VPN peers, DMZ, stateless Active/Standby high availability, 3DES/AES license | ASA5505-SEC-BUN-K9 |
| Cisco ASA 5510 Firewall Edition includes 5 Fast Ethernet interfaces, 250 IPsec VPN peers, 2 SSL VPN peers, 3DES/AES license | ASA5510-BUN-K9 |
| Cisco ASA 5510 Firewall Edition includes 5 Fast Ethernet interfaces, 250 IPsec VPN peers, 2 SSL VPN peers, DES license | ASA5510-K8 |
| Cisco ASA 5510 Security Plus Firewall Edition includes 2 Gigabit Ethernet + 3 Fast Ethernet interfaces, 250 IPsec VPN peers, 2 SSL VPN peers, Active/Standby high availability, 3DES/AES license | ASA5510-SEC-BUN-K9 |
| Cisco ASA 5520 Firewall Edition includes 4 Gigabit Ethernet interfaces + 1 Fast Ethernet interface, 750 IPsec VPN peers, 2 SSL VPN peers, Active/Active and Active/Standby high availability, 3DES/AES license | ASA5520-BUN-K9 |
| Cisco ASA 5520 Firewall Edition includes 4 Gigabit Ethernet interfaces + 1 Fast Ethernet interface, 750 IPsec VPN peers, 2 SSL VPN peers, Active/Active and Active/Standby high availability, DES license | ASA5520-K8 |
| Cisco ASA 5540 Firewall Edition includes 4 Gigabit Ethernet interfaces + 1 Fast Ethernet interface, 5000 IPsec VPN peers, 2 SSL VPN peers, 3DES/AES license | ASA5540-BUN-K9 |
| Cisco ASA 5540 Firewall Edition includes 4 Gigabit Ethernet interfaces + 1 Fast Ethernet interface, 5000 IPsec VPN peers, 2 SSL VPN peers, DES license | ASA5540-K8 |
| Cisco ASA 5550 Firewall Edition includes 8 Gigabit Ethernet interfaces + 1 Fast Ethernet interface, 4 Gigabit SFP interfaces, 5000 IPsec VPN peers, 2 SSL VPN peers, 3DES/AES license | ASA5550-BUN-K9 |
| Cisco ASA 5550 Firewall Edition includes 8 Gigabit Ethernet interfaces + 1 Fast Ethernet interface, 4 Gigabit SFP interfaces, 5000 IPsec VPN peers, 2 SSL VPN peers, DES license | ASA5550-K8 |
| Cisco ASA 5580-20 Firewall Edition includes 2 management interfaces, 10,000 IPsec VPN peers, 2 SSL VPN peers, DES license | ASA5580-20-BUN-K8 |
| Cisco ASA 5580-20 Firewall Edition includes 2 management interfaces, 10,000 IPsec VPN peers, 2 SSL VPN peers, 3DES/AES license | ASA5580-20-BUN-K9 |
| Cisco ASA 5580-20 Firewall Edition 4 Gigabit Ethernet Bundle includes 4 Gigabit Ethernet interfaces, 2 management interfaces, 10,000 IPsec VPN peers, 2 SSL VPN peers, Dual AC power, 3DES/AES license | ASA5580-20-4GE-K9 |
| Cisco ASA 5580-20 Firewall Edition 8 Gigabit Ethernet Bundle includes 8 Gigabit Ethernet interfaces, 2 management interfaces, 10,000 IPsec VPN peers, 2 SSL VPN peers, Dual AC power, 3DES/AES license | ASA5580-20-8GE-K9 |
| Cisco ASA 5580-40 Firewall Edition includes 2 management interfaces, 10,000 IPsec VPN peers, 2 SSL VPN peers, DES license | ASA5580-40-BUN-K8 |
| Cisco ASA 5580-40 Firewall Edition includes 2 management interfaces, 10,000 IPsec VPN peers, 2 SSL VPN peers, 3DES/AES license | ASA5580-40-BUN-K9 |
| Cisco ASA 5580-40 Firewall Edition 8 Gigabit Ethernet Bundle includes 8 Gigabit Ethernet interfaces, 2 management interfaces, 10,000 IPsec VPN peers, 2 SSL VPN peers, Dual AC power, 3DES/AES license | ASA5580-40-8GE-K9 |
| Cisco ASA 5580-40 Firewall Edition 4 10Gigabit Ethernet Bundle includes 4 10Gigabit Ethernet interfaces; 2 management interfaces; 10,000 IPsec VPN peers; 2 SSL VPN peers, Dual AC power, 3DES/AES license | ASA5580-40-10GE-K9 |
| Cisco ASA 5500 Series IPS Edition Bundles | |
| Cisco ASA 5505 50-User Adaptive Security Appliance with AIP-SSC-5 (chassis, software, 8 Fast Ethernet interfaces, 10 IPsec VPN peers, 2 SSL VPN peers, 3DES/AES license) | ASA5505-50-AIP5-K9 |

| Product Name | Part Number |
|--|--------------------|
| Cisco ASA 5505 Unlimited-User Adaptive Security Appliance with Security Plus License and AIP-SSC-5 (chassis, software, 8 Fast Ethernet interfaces, 25 IPsec VPN peers, 2 SSL VPN peers, DMZ support, stateless Active/Standby high availability, 3DES/AES license) | ASA5505-U-AIP5P-K9 |
| Cisco ASA 5510 IPS Edition includes AIP-SSM-10, firewall services, 250 IPsec VPN peers, 2 SSL VPN peers, 5 Fast Ethernet interfaces | ASA5510-AIP10-K9 |
| Cisco ASA 5510 Adaptive Security Appliance with Security Plus License and AIP-SSM-10 (chassis, software, 2 Gigabit Ethernet interfaces, 3 Fast Ethernet interfaces, 250 IPsec VPN peers, 2 SSL VPN peers, Active/Active high availability, 3DES/AES) | ASA5510-AIP10SP-K9 |
| Cisco ASA 5510 Adaptive Security Appliance with Security Plus License and AIP-SSM-20 (chassis, software, 2 Gigabit Ethernet interfaces, 3 Fast Ethernet interfaces, 250 IPsec VPN peers, 2 SSL VPN peers, Active/Active high availability, 3DES/AES) | ASA5510-AIP20SP-K9 |
| Cisco ASA 5520 IPS Edition includes AIP-SSM-10, firewall services, 750 IPsec VPN peers, 2 SSL VPN peers, 4 Gigabit Ethernet interfaces, 1 Fast Ethernet interface | ASA5520-AIP10-K9 |
| Cisco ASA 5520 IPS Edition includes AIP-SSM-20, firewall services, 750 IPsec VPN peers, 2 SSL VPN peers, 4 Gigabit Ethernet interfaces, 1 Fast Ethernet interface | ASA5520-AIP20-K9 |
| Cisco ASA 5520 IPS Edition includes AIP-SSM-40, firewall services, 750 IPsec VPN peers, 2 SSL VPN peers, 4 Gigabit Ethernet interfaces, 1 Fast Ethernet interface | ASA5520-AIP40-K9 |
| Cisco ASA 5540 IPS Edition includes AIP-SSM-20, firewall services, 5000 IPsec VPN peers, 2 SSL VPN peers, 4 Gigabit Ethernet interfaces, 1 Fast Ethernet interface | ASA5540-AIP20-K9 |
| Cisco ASA 5540 IPS Edition includes AIP-SSM-40, firewall services, 5000 IPsec VPN peers, 2 SSL VPN peers, 4 Gigabit Ethernet interfaces, 1 Fast Ethernet interface | ASA5540-AIP40-K9 |
| Cisco ASA 5500 Series Content Security Edition Bundles | |
| Cisco ASA 5510 Content Security Edition includes CSC-SSM-10, 50-user antivirus/anti-spyware with 1-year subscription, firewall services, 250 IPsec VPN peers, 2 SSL VPN peers, 3 Fast Ethernet interfaces | ASA5510-CSC10-K9 |
| Cisco ASA 5510 Content Security Edition includes CSC-SSM-20, 500-user antivirus/anti-spyware with 1-year subscription, firewall services, 250 IPsec VPN peers, 2 SSL VPN peers, 3 Fast Ethernet interfaces | ASA5510-CSC20-K9 |
| Cisco ASA 5520 Content Security Edition includes CSC-SSM-10, 50-user antivirus/anti-spyware with 1-year subscription, firewall services, 750 IPsec VPN peers, 2 SSL VPN peers, 4 Gigabit Ethernet interfaces, 1 Fast Ethernet interface | ASA5520-CSC10-K9 |
| Cisco ASA 5520 Content Security Edition includes CSC-SSM-20, 500-user antivirus/anti-spyware with 1-year subscription, firewall services, 750 IPsec VPN peers, 2 SSL VPN peers, 4 Gigabit Ethernet interfaces, 1 Fast Ethernet interface | ASA5520-CSC20-K9 |
| Cisco ASA 5500 Series SSL/IPsec VPN Edition Bundles | |
| Cisco ASA 5505 SSL/IPsec VPN Edition includes 10 IPsec VPN peers, 10 SSL VPN peers, 50 firewall users, 8-port Fast Ethernet switch | ASA5505-SSL10-K9 |
| Cisco ASA 5505 SSL/IPsec VPN Edition includes 25 IPsec VPN peers, 25 SSL VPN peers, 50 firewall users, 8-port Fast Ethernet switch | ASA5505-SSL25-K9 |
| Cisco ASA 5510 SSL/IPsec VPN Edition includes 250 IPsec VPN peers, 50 SSL VPN peers, firewall services, 3 Fast Ethernet interfaces | ASA5510-SSL50-K9 |
| Cisco ASA 5510 SSL/IPsec VPN Edition includes 250 IPsec VPN peers, 100 SSL VPN 100 peers, firewall services, 3 Fast Ethernet interfaces | ASA5510-SSL100-K9 |
| Cisco ASA 5510 SSL/IPsec VPN Edition includes 250 IPsec VPN peers, 250 SSL VPN peers, firewall services, 3 Fast Ethernet interfaces | ASA5510-SSL250-K9 |
| Cisco ASA 5520 SSL/IPsec VPN Edition includes 750 IPsec VPN peers, 500 SSL VPN peers, firewall services, 4 Gigabit Ethernet interfaces, 1 Fast Ethernet interface | ASA5520-SSL500-K9 |
| Cisco ASA 5540 SSL/IPsec VPN Edition includes 5000 IPsec VPN peers, 1000 SSL VPN peers, firewall services, 4 Gigabit Ethernet interfaces, 1 Fast Ethernet interface | ASA5540-SSL1000-K9 |
| Cisco ASA 5540 SSL/IPsec VPN Edition includes 5000 IPsec VPN peers, 2500 SSL VPN peers, firewall services, 4 Gigabit Ethernet interfaces, 1 Fast Ethernet interface | ASA5540-SSL2500-K9 |
| Cisco ASA 5550 SSL/IPsec VPN Edition includes 5000 IPsec VPN peers, 2500 SSL VPN peers, firewall services, 8 Gigabit Ethernet interfaces, 1 Fast Ethernet interface | ASA5550-SSL2500-K9 |
| Cisco ASA 5550 SSL/IPsec VPN Edition includes 5000 IPsec VPN peers, 5000 SSL VPN peers, firewall services, 8 Gigabit Ethernet interfaces, 1 Fast Ethernet interface | ASA5550-SSL5000-K9 |
| Cisco ASA 5580 SSL/IPsec VPN Edition includes 10,000 IPsec VPN peers, 10,000 SSL VPN peers, firewall services, 4 Gigabit Ethernet interfaces, 2 management interfaces, Dual AC power, 3DES/AES license | ASA5580-20-10K-K9 |

| Product Name | Part Number |
|--|--------------------|
| Security Services Modules | |
| Cisco ASA 5500 Series Advanced Inspection and Prevention Security Services Card 5 (AIP SSC-5) | ASA-SSC-AIP-5-K9= |
| Cisco ASA Advanced Inspection and Prevention Security Services Module 10 | ASA-SSM-AIP-10-K9= |
| Cisco ASA Advanced Inspection and Prevention Security Services Module 20 | ASA-SSM-AIP-20-K9= |
| Cisco ASA 5500 Series Advanced Inspection and Prevention Security Services Module 40 (AIP SSM-40) | ASA-SSM-AIP-40-K9= |
| Cisco ASA Content Security and Control Security Services Module 10 with 50-user antivirus/anti-spyware, 1-year subscription | ASA-SSM-CSC-10-K9= |
| Cisco ASA Content Security and Control Security Services Module 20 with 500-user antivirus/anti-spyware, 1-year subscription | ASA-SSM-CSC-20-K9= |
| Cisco ASA 4-Port Gigabit Ethernet Security Services Module | SSM-4GE= |
| Cisco ASA 5580 Series Interface Expansion Cards | |
| Cisco ASA 5580 4-port 10/100/1000 Ethernet interface card, RJ45 | ASA5580-4GE-CU= |
| Cisco ASA 5580 4-port Gigabit Ethernet fiber interface card, SR, LC | ASA5580-4GE-FI= |
| Cisco ASA 5580 2-port 10 Gigabit Ethernet fiber interface card, SR, LC | ASA5580-2X10GE-SR= |
| Cisco ASA 5500 Series Software | |
| Cisco ASA Software one-time upgrade for nonsupport customers | ASA-SW-UPGRADE= |
| Cisco ASA 5500 Series Accessories | |
| Cisco ASA 5500 Series compact flash, 256 MB | ASA5500-CF-256MB= |
| Cisco ASA 5500 Series compact flash, 512 MB | ASA5500-CF-512MB= |
| Cisco ASA 180W AC power supply | ASA-180W-PWR-AC= |
| Gigabit Ethernet optical SFP connector, 1000BASE-SX short-wavelength transceiver | GLC-SX-MM= |
| Gigabit Ethernet optical SFP connector, 1000BASE-LX/LH long-wavelength/long-haul transceiver | GLC-LH-SM= |
| Cisco ASA 5580 Spare AC Power Supply | ASA5580-PWR-AC= |
| Cisco ASA 5580 Spare Rail Kit | ASA5580-RAILS= |

To Download the Software

Visit the [Cisco Software Center](#) to download Cisco ASA Software.

Service and Support

Cisco services help you protect your network investment, optimize network operations, and prepare your network for new applications to extend network intelligence and the power of your business.

Included in the “Operate” phase of the service lifecycle are Cisco Security Intellisield Alert Manager Service, Cisco SMARTnet[®], Service Provider Base, and Cisco Services for IPS. These services are suitable for enterprise, commercial, and service provider customers.

Cisco Security Intellisield Alert Manager Service provides a customizable, web-based threat and vulnerability alert service that allows organizations to easily access timely, accurate, and credible information about potential vulnerabilities in their environment.

Cisco Services for IPS supports modules, platforms, and bundles of platforms and modules that feature IPS capabilities. Cisco SMARTnet and Service Provider Base support other products in this family.

For More Information

For more information, please visit the following links:

- Cisco ASA 5500 Series Adaptive Security Appliance: <https://www.cisco.com/go/asa>
- Cisco Adaptive Security Device Manager: <https://www.cisco.com/go/asdm>
- Cisco Security Services:
https://www.cisco.com/en/US/products/svcs/ps2961/ps2952/serv_group_home.html
- Cisco ASA 5500 Series Adaptive Security Appliance Licensing Information:
https://www.cisco.com/en/US/products/ps6120/products_licensing_information_listing.html



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