



# CHAPTER 1

## Overview

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Read through the entire guide before beginning any of the procedures in this book.



**Warning**

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**Only trained and qualified personnel should install, replace, or service this equipment.** Statement 49

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**Caution**

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Read the safety warnings in the *Regulatory Compliance and Safety Information for the Cisco ASA 5500 Series* and follow proper safety procedures when performing these steps.

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This chapter describes the product and the memory requirements, and includes the following topics:

- [Product Overview, page 1-2](#)
- [Memory Requirements, page 1-5](#)



**Note**

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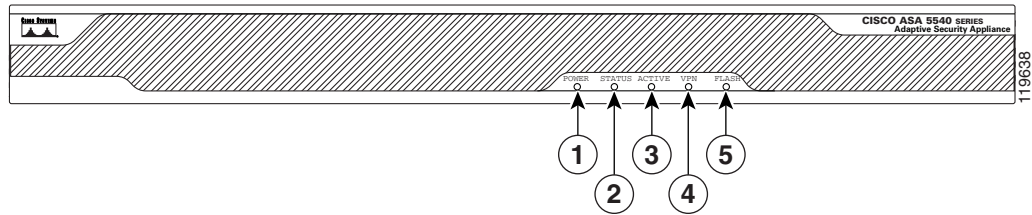
The illustrations in this chapter show the Cisco ASA 5540 adaptive security appliance. The Cisco ASA 5510 and Cisco ASA 5520 adaptive security appliance look identical, containing the same back panel features and indicators. The Cisco ASA 5550 has a fixed configuration with an embedded 4GE slot as shown in [Figure 1-3](#).

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# Product Overview

This section describes the front and rear panels. [Figure 1-1](#) shows the front panel LEDs.

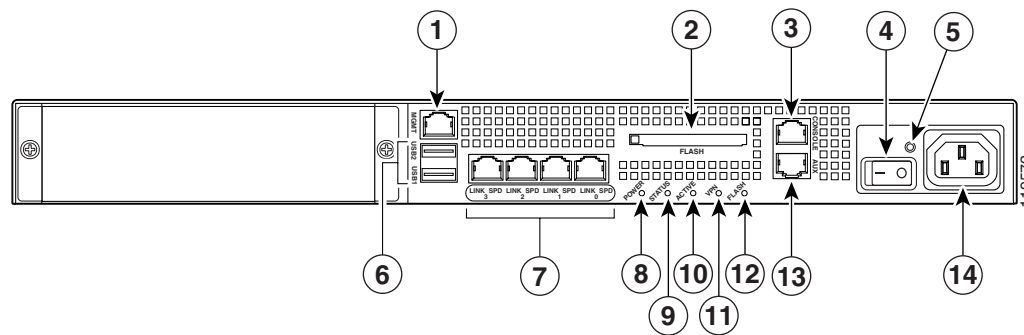
**Figure 1-1 Front Panel LEDs**



	LED	Color	State	Description
1	Power	Green	On	The system has power.
2	Status	Green	Flashing	The power-up diagnostics are running or the system is booting.
			Solid	The system has passed power-up diagnostics.
			Amber	Solid
3	Active	Green	Flashing	There is network activity.
4	VPN	Green	Solid	VPN tunnel is established.
5	Flash	Green	Solid	The CompactFlash is being accessed.

[Figure 1-2](#) shows the rear panel.

**Figure 1-2 Rear Panel LEDs and Ports (AC Power Supply Model Shown)**



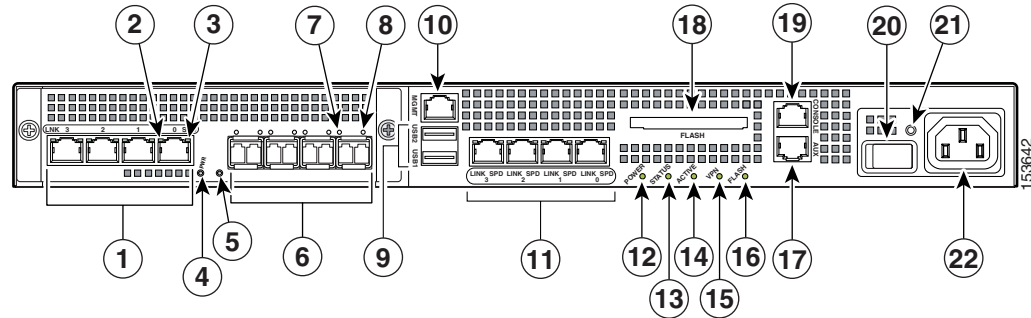
1	Management port <sup>1</sup>	6	USB 2.0 interfaces <sup>2</sup>	11	VPN LED
2	External CompactFlash slot	7	Network interfaces <sup>3</sup>	12	Flash LED
3	Serial Console port	8	Power indicator LED	13	AUX port
4	Power switch	9	Status indicator LED	14	Power connector
5	Power indicator LED	10	Active LED		

1. The management 0/0 interface is a Fast Ethernet interface designed for management traffic only.
2. Not supported at this time.
3. GigabitEthernet interfaces, from right to left, GigabitEthernet 0/0, GigabitEthernet 0/1, GigabitEthernet 0/2, and GigabitEthernet 0/3.

For more information about the Management port, see the **management only** command in the *Cisco Security Appliance Command Reference*.

The Cisco ASA 5550 has a fixed configuration with an embedded 4GE slot as shown in [Figure 1-3](#).

**Figure 1-3 Rear Panel LEDs and Ports for the Cisco ASA 5550**



<b>1</b>	RJ-45 ports <sup>1</sup>	<b>9</b>	USB 2.0 interfaces <sup>2</sup>	<b>17</b>	AUX port
<b>2</b>	RJ-45 Link LED	<b>10</b>	Management port <sup>3</sup>	<b>18</b>	External CompactFlash slot
<b>3</b>	RJ-45 Speed LED	<b>11</b>	Network interfaces <sup>4</sup>	<b>19</b>	Serial Console port
<b>4</b>	Power LED	<b>12</b>	Power indicator LED	<b>20</b>	Power switch
<b>5</b>	Status LED	<b>13</b>	Status indicator LED	<b>21</b>	Power indicator LED
<b>6</b>	SFP ports <sup>5</sup>	<b>14</b>	Active LED	<b>22</b>	Power connector
<b>7</b>	SFP Link LED	<b>15</b>	VPN LED		
<b>8</b>	SFP Speed LED	<b>16</b>	Flash LED		

1. GigabitEthernet ports, from right to left, GigabitEthernet 0/0, GigabitEthernet 1/0, GigabitEthernet 1/2, and GigabitEthernet 1/3
2. Not supported at this time.
3. The management 0/0 interface is a Fast Ethernet interface designed for management traffic only.
4. GigabitEthernet interfaces, from right to left, GigabitEthernet 0/0, GigabitEthernet 0/1, GigabitEthernet 0/2, and GigabitEthernet 0/3.
5. SFP ports, from right to left, GigabitEthernet 1/0, GigabitEthernet 1/1, GigabitEthernet 1/2, and GigabitEthernet 1/3

[Table 1-1](#) describes the 4GE SSM LEDs.

**Table 1-1 4GE SSM LEDs for the Cisco ASA 5550**

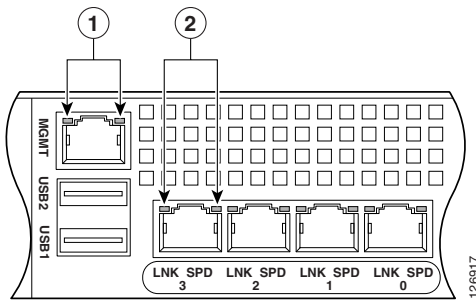
	LED	Color	State	Description
<b>2, 7</b>	LINK	Green	Solid	There is an Ethernet link.
			Flashing	There is Ethernet activity.
<b>3, 8</b>	SPEED	Off	10 MB	There is no network activity.
		Green	100 MB	There is network activity at 100 Mbps.
		Amber	1000 MB (GigE)	There is network activity at 1000 Mbps.
<b>4</b>	POWER	Green	On	The system has power.

**Table 1-1 4GE SSM LEDs (continued) for the Cisco ASA 5550**

	LED	Color	State	Description
5	STATUS	Green	Flashing	The system is booting.
		Green	Solid	The system booted correctly.
		Amber	Solid	The system diagnostics failed.

Figure 1-4 shows the adaptive security appliance rear panel LEDs.

**Figure 1-4 Rear Panel Link and Speed Indicator LEDs**



1	MGMT indicator LEDs	2	Network interface LEDs
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Table 1-2 lists the rear MGMT and Network interface LEDs.

**Table 1-2 Link and Speed LEDs**

Indicator	Color	Description
Left side	Solid green	Physical link
	Green flashing	Network activity
Right side	Not lit	10 Mbps
	Green	100 Mbps
	Amber	1000 Mbps



**Note**

The Cisco ASA 5510 adaptive security appliance supports only 10/100BaseTX. The Cisco ASA 5520 and the Cisco ASA 5540 support 1000BaseT.

# Memory Requirements

Table 1-3 lists the CPU and the memory specifications for each model.

**Table 1-3 CPU and Memory Specifications**

ASA Model	CPU	Default DRAM Memory	Default Internal Flash Memory
Cisco ASA 5510	1.6 GHz Celeron	256 MB	512MB
Cisco ASA 5520	2.0 GHz Celeron	512 MB	512MB
Cisco ASA 5540	2.0 GHz Pentium 4	1024 MB	512MB
Cisco ASA 5550	3.0 GHz Pentium 4	4096 MB	512MB

In a failover configuration, the two units must have the same hardware configuration. They must be the same model, have the same number and types of interfaces, and the same amount of RAM.



**Note**

The two units do not have to have the same size Flash memory. If using units with different Flash memory sizes in your failover configuration, make sure the unit with the smaller Flash memory has enough space to accommodate the software image files and the configuration files. If it does not, configuration synchronization from the unit with the larger Flash memory to the unit with the smaller Flash memory will fail.

For more information, see the [Configuring Failover](#) chapter in the *Cisco Security Appliance Command Line Configuration Guide*.

