



# Specifications

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This appendix contains the following sections that list specifications for the CSS 11501, CSS 11503, and CSS 11506:

- [Electrical Specifications](#)
- [Environmental Specifications](#)
- [Physical Specifications](#)
- [CSS 11501 Bandwidth and Memory Specifications](#)
- [CSS 11503 and CSS 11506 Module Specifications](#)
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# Electrical Specifications

Table A-1 describes the CSS 11501, CSS 11503, and CSS 11506 AC electrical specifications.

**Table A-1 AC Electrical Specifications**

AC Specification	CSS 11501	CSS 11503	CSS 11506
Input Voltage AC	100 to 240 VAC 50 to 60 Hz	100 to 240 VAC 50 to 60 Hz	100 to 240 VAC 50 to 60 Hz
Current AC (max @ 100 VAC)	1.6 Amps	5 Amps	9 Amps
Power Consumption (maximum)	150VA	430VA	860VA
Heat Dissipation	512 BTU/hr	1468 BTU/hr	2936 BTU/hr

Table A-2 describes the CSS 11503 and CSS 11506 DC electrical specifications.

**Table A-2 DC Electrical Specifications**

DC Specification	CSS 11503	CSS 11506
Voltage DC	-48.0 to -60.0 VDC	-48.0 to -60.0 VDC
Current DC (maximum)	9 Amps	18 Amps
Power Consumption (maximum)	430 VA	860 VA
Heat Dissipation	1468 BTU/hr	2936 BTU/hr

# Environmental Specifications

Table A-3 describes the CSS 11501, CSS 11503, and CSS 11506 environmental specifications.

**Table A-3 Environmental Specifications**

Specification	Operating	Non-operating
Temperature	32° to 104°F (0° to 40°C)	-4° to 149°F (-20° to 64°C)
Humidity	10 to 90% (non-condensing)	Up to 95% (non-condensing)
Altitude	0 to 10,000 ft. (0 to 3,000 m)	0 to 15,000 ft. (0 to 4750 m)
Shock	21 inch/sec <sup>2</sup> (0.53 m/sec <sup>2</sup> ), half sine	20 G, 52 inch/sec <sup>2</sup> (1.32 m/sec <sup>2</sup> ), trapezoidal pulse
Vibration	0.35 Grms from 3 to 500 Hz	1.0 Grms from 3 to 500 Hz
Acoustic Noise	70 dBa, maximum	Not applicable



**Note**

G is the unit of acceleration due to gravity, where 1 G equals 32.17 ft/sec<sup>2</sup> (9.81 m/sec<sup>2</sup>).



**Note**

Grms is the root mean square value of acceleration.

# Physical Specifications

Table A-4 describes the CSS 11501, CSS 11503, and CSS 11506 physical specifications.

**Table A-4 Physical Specifications**

Specification	CSS 11501	CSS 11503	CSS 11506
Chassis Dimensions (H x W x D)	1.72" x 17.29" x 18.1"	3.5" x 17.25" x 18.5"	8.25" x 17.25" x 14"
Chassis Shipping Weight	21.5 lbs. (9.77 kg)	42.85 lbs. (19.44 kg) (base system containing one SCM and two I/O modules plus accessory box)	67.65 lbs. (30.69 kg) (base system containing two power supplies, one SCM, five I/O modules, and mounting brackets plus accessory box)
Chassis Weight Fully Configured	18.0 lbs.	33.3 lbs. (base system containing one SCM and two I/O modules)	57.7 lbs. (base system containing two power supplies, one SCM, and five I/O modules)

# CSS 11501 Bandwidth and Memory Specifications

Table A-5 describes the CSS 11501 switch bandwidth and memory specifications.

**Table A-5 CSS 11501 Specifications**

Specification	Description
Switch Bandwidth	6 Gbps. Two full-duplex 1.6 Gbps pathways into a full-meshed switch fabric
SCM Memory (RDRAM)	288 MB (256 MB of usable memory)
SSL Integrated Module Memory	512 MB SDRAM

# CSS 11503 and CSS 11506 Module Specifications

Table A-6 describes the CSS 11503 and CSS 11506 module specifications.

**Table A-6 CSS 11503 and CSS 11506 Module Specifications**

Specification	CSS 11503	CSS 11506
Slot Configuration	2 slots for I/O modules with one SCM	5 slots for I/O modules with one SCM 4 slots for I/O modules with two SCMs (1 active, 1 passive)
Switch Bandwidth	20 Gbps. Each slot has two full-duplex 1.6 Gbps pathways into a full-meshed switch fabric	40 Gbps. Each slot has two full-duplex 1.6 Gbps pathways into a full-meshed switch fabric
SCM Memory (RDRAM)	288 MB (256 MB of usable memory)	288 MB (256 MB of usable memory)
IOM Memory (RDRAM)	144 MB default or 288 MB optional (128 MB or 256 MB of usable memory, respectively)	144 MB default or 288 MB optional (128 MB or 256 MB of usable memory, respectively)
SSL Module Memory	512 MB SDRAM	512 MB SDRAM

# Disk Specifications

Table A-7 defines the specifications for each disk in the CSS 11501 chassis or in a CSS 11503 or CSS 11506 SCM.

**Table A-7 Disk Specifications**

Specification	Hard Disk	Flash Disk
Capacity (minimum)	Refer to data sheet.	Refer to data sheet.
Interface	PCMCIA ATA	PCMCIA ATA

## Supported Standards

The CSS supports the following standards:

- Transport
- Network
- Routing
- Gateway
- Application
- Network Utilities
- Network Management

## Transport

The CSS supports the following transport standards:

- TCP
- UDP

## Network

The CSS supports the following network standards:

- Internet Protocol (IP)
- ICMP
- Address Resolution Protocol (ARP)
- Inverse ARP

## Routing

The CSS supports the following routing standards:

- RIP I
- RIP II
- OSPF Version 2

## Gateway

The CSS supports Network Address Translation (NAT), per RFC 1631 gateway standards

## Application

The CSS supports the following application standards:

- HTTP 1.0, HTTP 1.1
- TELNET
- FTP, TFTP
- RTP

## Network Utilities

The CSS supports the following network utility standards:

- DNS Client
- RADIUS Client
- TACACS+ Client
- HTTP Client
- FTP Daemon
- SNTTP

## Network Management

The CSS supports the following network management standards:

- SNMP v1
- SNMP v2c