



INDEX

Numerics

10/100BASE-T
port LEDs [5-8](#)

1000BASE-X
port and status LEDs (figure) [5-8](#)

1000 W power supplies
AC power cords [A-4](#)

1300 W power supplies
AC power cords [A-8](#)

1400 W power supplies
AC power cords [A-13](#)

2800 W AC-input power supply LEDs [A-26](#)

2800 W power supplies
AC power cords [A-27](#)

4200 W AC-input power supplies
features [A-28](#)

4200 W AC-input power supply LEDs [A-31](#)

4200 W power supplies
AC power cords [A-32](#)

6000 W AC-input power supplies
features [A-35](#)
remote power cycling feature [A-40](#)
remote power cycling terminal block [A-40](#)

6000 W power supplies
AC power cords [A-38](#)

9000W AC-input power supplies
AC power cords supported [A-47](#)
combined mode operation [A-46](#)
features (figure) [A-42](#)
LED meanings [A-45](#)
platforms supported [A-42](#)
redundant mode power output [A-46](#)

remote power cycling feature [A-49](#)
specifications (table) [A-43](#)

A

AC-input power cords
1000 W power supply [A-4](#)
1300 W power supply [A-8](#)
1400 W power supply [A-13](#)
2800 W power supply [A-27](#)
4200 W power supply [A-32](#)
6000 W power supply [A-38](#)

AC-input power supplies
environmental monitoring [A-51](#)
figure [4-3](#)
handling (figure) [4-6](#)
installing [4-7](#)
removing [4-5](#)
replacing [4-7](#)
source circuit requirements [2-12](#)
troubleshooting [5-4](#)
verifying operation [4-8](#)
See also DC-input power supplies

airflow
Catalyst 4503-E switches (table) [1-5](#)
Catalyst 4506-E switches (table) [1-9](#)
Catalyst 4507R+E switches (table) [1-21](#)
Catalyst 4507R-E switches (table) [1-13](#)
Catalyst 4510R+E switches (table) [1-25](#)
Catalyst 4510R-E switches (table) [1-17](#)

B

boot process

troubleshooting [5-2](#)

branch circuit requirements [2-12](#)

C

cabling

requirements and guidelines [2-14](#)

Catalyst 4503-E switches

chassis dimensions [1-5](#)

fan trays [1-4](#)

front view [1-2](#)

power supplies [1-4](#)

repacking [B-1](#)

supervisor engines [1-3](#)

Catalyst 4506-E switches

attaching cable guides (figure) [3-7](#)

chassis dimensions [1-9](#)

fan trays [1-7](#)

front view [1-6](#)

installing in racks (figure) [3-6](#)

power supplies [1-8](#)

repacking [B-1](#)

supervisor engines [1-7](#)

Catalyst 4507R+E switches

chassis dimensions [1-21](#)

fan trays [1-20](#)

power supplies [1-20](#)

supervisor engines [1-19](#)

Catalyst 4507R-E switches

chassis dimensions [1-13](#)

description [1-10](#)

fan trays [1-12](#)

front view [1-10](#)

power supplies [1-12](#)

supervisor engines [1-11](#)

Catalyst 4510R+E switches

chassis dimensions [1-25](#)

fan trays [1-24](#)

power supplies [1-24](#)

supervisor engines [1-23](#)

Catalyst 4510R-E switches

chassis dimensions [1-17](#)

description [1-14](#)

fan trays [1-16](#)

front view [1-14](#)

power supplies [1-16](#)

supervisor engines [1-15](#)

category 5e static electricity caution [2-6, 2-9, 2-14](#)

category 6a static electricity caution [2-6, 2-9, 2-14](#)

category 6 static electricity caution [2-6, 2-9, 2-14](#)

chassis dimensions

See Catalyst 4503-E switches; Catalyst 4506-E switches;

See Catalyst 4506-E switches; Catalyst 4506-E switches;

See Catalyst 4507R+E switches; Catalyst 4507R+E switches;

See Catalyst 4507R-E switches; Catalyst 4507R-E switches;

See Catalyst 4510R+E switches; Catalyst 4510R+E switches;

See Catalyst 4510R-E switches; Catalyst 4510R-E switches;

components

troubleshooting [5-4 to 5-19](#)

connecting

system ground [3-7 to 3-9](#)

terminals [3-10](#)

to console port [C-2](#)

uplink ports [3-11](#)

console port

connecting to [C-2](#)

conventions

warnings [-ix](#)

D

DC-input power supplies

- connecting system ground [3-8](#)
- environmental monitoring [A-51](#)
- figure [A-15, A-18](#)
- handling (figure) [4-12](#)
- installing [4-12](#)
- removing [4-8](#)
- replacing [4-12](#)
- See also AC-input power supplies
- troubleshooting [5-4](#)
- verifying operation [4-14](#)

dimensions

- Catalyst 4503-E switches (table) [1-5](#)
- Catalyst 4506-E switches (table) [1-9](#)
- Catalyst 4507R+E switches (table) [1-21](#)
- Catalyst 4507R-E switches (table) [1-13](#)
- Catalyst 4510R+E switches (table) [1-25](#)
- Catalyst 4510R-E switches (table) [1-17](#)

disconnecting

- ground connections (warning) [4-10](#)

documentation

- conventions [-viii](#)

E

environmental monitoring

- power supplies [A-51](#)

ESD

- guidelines [2-10](#)
- preventing [2-10](#)

Ethernet management ports

- LEDs [5-3](#)
- troubleshooting [5-3](#)

F

FAIL LEDs

- checking [4-8](#)
- verifying power supply status [4-14](#)

fan assemblies

- booting [5-2](#)
- installing [4-15](#)
- removing [4-14](#)
- troubleshooting [5-6](#)
- verifying installation [4-16](#)

FAN OK LED

- checking [4-8](#)

ferrite bead [A-41, A-50](#)

field-replaceable units

- See FRUs

Flash code

- troubleshooting [5-3](#)

FRUs

- AC-input power supplies [4-5 to 4-8](#)
- DC-input power supplies [4-8 to 4-14](#)
- fan assemblies [4-14 to 4-16](#)

G

GOOD LEDs

- checking [4-8](#)
- troubleshooting [5-4](#)
- verifying power supply status [4-14](#)

grounding

- connecting systems [3-8](#)

grounding. See system ground

ground wire

- figure [4-10, 4-11](#)

H

help

See TAC

hot swapping

fan assemblies [4-14](#)

humidity

Catalyst 4503-E switch specifications (table) [1-5](#)

Catalyst 4506-E switch specifications (table) [1-9](#)

Catalyst 4507R+E switch specifications (table) [1-21](#)

Catalyst 4507R-E switch specifications (table) [1-13](#)

Catalyst 4510R+E switch specifications (table) [1-25](#)

I

installation

connecting to a power source [C-2](#)

starting the terminal-emulation software [C-2](#)

installing

AC-input power supplies [4-5 to 4-8](#)

DC-input power supplies [4-8 to 4-14](#)

fan assemblies [4-14 to 4-16](#)

installing switches in racks [3-4 to ??](#)

L

LEDs

checking power supplies [5-3](#)

checking supervisor engines [5-2](#)

POST results [C-3](#)

See also specific types of LEDs

LINK LEDs (table) [5-8](#)

M

Mux buffers [4-16, 5-7](#)

O

OUTPUT FAIL LED

environmental monitoring [A-51](#)

P

packaging materials [B-1](#)

port status LEDs [5-9](#)

POST

LEDs [C-3](#)

power cords

See AC-input power cords

power requirements

branch circuit requirements [2-12](#)

site preparation [2-12](#)

UPS selection [2-12](#)

power supplies

Catalyst 4503-E switches [1-4](#)

Catalyst 4506-E switches [1-8](#)

Catalyst 4507R+E switches [1-20](#)

Catalyst 4507R-E switches [1-12](#)

Catalyst 4510R+E switches [1-24](#)

Catalyst 4510R-E switches [1-16](#)

DC power cable leads color coding [2-13](#)

LEDs [5-3](#)

R

rack-mounting

switches [3-5](#)

rack-mount kits

guidelines [3-2](#)

Redundancy modules [4-16, 5-7](#)

remote power cycling feature

components (figure) [A-40, A-49](#)

ferrite bead [A-41, A-50](#)

operation [A-41, A-50](#)

overview [A-40, A-49](#)

- switch settings and operation [A-41, A-50](#)
- removing
 - AC-input power supplies [4-5](#)
 - DC-input power supplies [4-8](#)
- repacking switches [B-1](#)
- replacing
 - AC-input power supplies [4-7 to 4-8](#)
 - DC-input power supplies [4-12 to 4-14](#)

S

- selecting a UPS [2-12](#)
- shipping instructions [B-1](#)
- show system command [4-8](#)
- signaling and pinouts
 - terminal setup [3-10](#)
- site requirements
 - altitude [2-5](#)
 - corrosion [2-5](#)
 - dust and contamination [2-5](#)
 - EMI [2-5](#)
 - humidity [2-4](#)
 - power interruptions [2-6](#)
 - shock and vibration [2-6](#)
- startup
 - troubleshooting [5-3](#)
- supervisor engines
 - uplink ports [3-11](#)
- system ground
 - accessory kit [3-8](#)
 - connecting [3-8](#)
 - grounding lug [3-8](#)
 - guidelines [2-8](#)
 - tools required [3-8](#)

T

- TAC
 - contacting [5-18](#)
- temperature
 - Catalyst 4503-E switches [1-5](#)
 - Catalyst 4506-E switches [1-9](#)
 - Catalyst 4507R+E switches [1-21](#)
 - Catalyst 4507R-E switches [1-13](#)
 - Catalyst 4510R+E switches [1-25](#)
 - Catalyst 4510R-E switches [1-17](#)
- terminal-emulation software [C-2](#)
- troubleshooting [5-4](#)
 - boot process [5-2](#)
 - fan assemblies [5-6](#)
 - power supplies [5-4](#)
 - startup [5-3](#)

U

- uplink ports
 - connecting [3-11](#)

V

- voltage
 - specifications, DC-input power supply [A-18](#)

W

- weight
 - Catalyst 4503-E switches (table) [1-5](#)
 - Catalyst 4506-E switches (table) [1-9](#)
 - Catalyst 4507R+E switches (table) [1-21](#)
 - Catalyst 4507R-E switches (table) [1-13](#)
 - Catalyst 4510R+E switches (table) [1-25](#)
 - Catalyst 4510R-E switches (table) [1-17](#)

