



INDEX

LEDs (continued)
ports (continued)

Numerics

10/100/1000 ports

- cable lengths [2-6](#)
- connecting to [2-39](#)
- described [1-10](#)
- illustrated [1-4](#)
- numbering [1-6](#)
- pinouts [B-2](#)
- recommended cables [2-40](#)

10/100 ports

- cable lengths [2-6](#)
- connecting to [2-39](#)
- described [1-10](#)
- illustrated [1-4](#)
- numbering [1-4](#)
- pinouts [B-2](#)
- recommended cables [2-40](#)

100BASE-FX ports patch cables [B-3](#)

100FASE-FX ports

- numbering [1-3, 1-4](#)

19- and 24-inch racks [2-12](#)

5 A-branch circuit protection caution [C-4](#)

A

AC power

- connecting to [2-7](#)
- connector [1-25](#)
- specifications [A-2 to A-8](#)

adapter pinouts, terminal

- RJ-45-to-DB-25 [B-9](#)
- RJ-45-to-DB-9 [B-9](#)

altitude, operating and storage [A-2 to A-8](#)

attaching the Cisco RPS warning [2-2, 2-7](#)

autonegotiation [1-10](#)

autonegotiation troubleshooting [3-5](#)

B

bodily injury protection warning [2-3, 2-12](#)

brackets

- See mounting brackets

C

cable guide, attaching [2-26](#)

cable lengths [2-6](#)

cables

crossover

- four twisted-pair pinout, 10/100 ports [B-7](#)
- four twisted-pair pinout, 1000BASE-T ports [B-9](#)
- two twisted-pair pinout, 10/100 ports [B-6](#)

recommended [2-40](#)

SFP module [B-5](#)

1000BASE-T module [2-43](#)

fiber-optic module [2-41](#)

straight-through

- four twisted-pair pinout, 10/100 ports [B-7](#)
- four twisted-pair pinout, 1000BASE-T ports [B-8](#)
- two twisted-pair pinout, 10/100 ports [B-6](#)

cables caution [1-24](#)

cabling

- 10/100/1000 ports [2-39](#)
 - 10/100 ports [1-11, 2-39](#)
 - considerations [2-9](#)
 - pinouts [B-6](#)
 - StackWise cables
 - cable numbers [1-24](#)
 - connecting to [2-30](#)
 - cautions [i-vii](#)
 - 5 A-branch-circuit protection [C-4](#)
 - DC-input power source [1-25](#)
 - DC power [C-4](#)
 - electromagnetic safety [2-5](#)
 - grounding procedure [C-2](#)
 - installing and removing fiber-optic SFP modules [2-33](#)
 - installing and removing fiber-optic XENPAK modules [2-36](#)
 - lightning surge requirements [C-8](#)
 - nonexposed wiring connections [C-8](#)
 - PoE faults [1-18, 2-40](#)
 - removing and installing StackWise cable [2-31](#)
 - removing dust plugs from fiber-optic SFP modules [2-34](#)
 - removing dust plugs from fiber-optic XENPAK modules [2-36](#)
 - removing rubber plugs from SFP module [2-42](#)
 - removing rubber plugs from XENPAK module [2-44](#)
 - secure terminal block wires [C-7](#)
 - torquing recommendation [C-6](#)
 - using approved cables [1-24](#)
 - Cisco enhanced power negotiation [1-11](#)
 - Cisco IOS command-line interface [1-27](#)
 - Cisco IP Phones, connecting to [1-10, 2-40](#)
 - Cisco RPS
 - See RPS
 - CiscoView [1-27](#)
 - Class 1 laser warning [2-3, 2-41, 2-44](#)
 - CLI [1-27](#)
 - accessing by using Express Setup [D-2](#)
 - accessing through console port [D-2](#)
 - code compliance warning [2-5](#)
 - command-line interface
 - See CLI
 - connecting
 - to 10/100/1000 ports [2-39](#)
 - to 10/100 ports [2-39](#)
 - to console port [B-4](#)
 - to DC power [C-1 to C-8](#)
 - to SFP modules [2-41 to 2-43](#)
 - to XENPAK modules [2-44 to 2-45](#)
 - connecting to the console port [D-5](#)
 - connection procedures [2-39 to 2-45](#)
 - connectors and cables
 - console port [B-4 to B-10](#)
 - power (AC and RPS) [1-25](#)
 - SC connectors [B-3](#)
 - SFP module ports [B-3](#)
 - XENPAK module ports [B-4](#)
 - console port
 - connecting to [D-5](#)
 - connectors and cables [B-4 to B-10](#)
 - described [1-26](#)
 - conventions, document [i-vii](#)
 - crossover cable
 - connecting to 1000BASE-T SFP module ports [2-43](#)
 - pinout
 - four twisted-pair, 1000BASE-T ports [B-9](#)
 - four twisted-pair 10/100 ports [B-7](#)
-
- ## D
- DC circuit warning [C-4](#)
 - DC-I grounding note [2-5](#)
 - DC-input power source caution [1-25](#)
 - DC input voltages for RPS 2300 and RPS 675 [A-2 to A-9](#)
 - DC power
 - connecting to [C-1 to C-8](#)
 - RPS [1-3](#)
 - specifications [A-2](#)

warnings [C-6](#)

DC power caution [C-4](#)

Device Manager

- description [1-26](#)
- related documentation [i-viii](#)
- to configure switch [2-45](#)

diagnosing problems [3-1](#)

dimensions [A-2 to A-8](#)

document conventions [i-vii](#)

duplex, troubleshooting [3-5](#)

duplex LED [1-17](#)

E

electrical noise, avoiding [2-6](#)

electromagnetic safety [2-5](#)

Ethernet and fiber-optic cable troubleshooting [3-2](#)

Express Setup

- using to access CLI [D-2](#)
- using to clear switch IP address [3-6](#)

F

features [1-1 to 1-3](#)

front panel

- 10/100 ports [1-10](#)
- clearance [2-6](#)
- description [1-4 to 1-10](#)
- LEDs [1-13 to 1-19](#)
- SFP module ports [1-12 to 1-13](#)
- XENPAK module ports [1-2, 1-13, B-4](#)

G

ground connection warning [2-4, C-2](#)

grounding procedure caution [C-2](#)

grounding procedure for DC power [C-2 to C-3](#)

H

HP OpenView [1-27](#)

humidity, relative [A-2 to A-8](#)

I

installation

- assigning the IP Address [D-7](#)
- connecting to a power source [D-6](#)
- rack-mounting [2-12 to 2-30](#)
- site requirements [2-6](#)
- stacking the switches
 - See also stacking
- starting the terminal emulation software [D-6](#)
- table or shelf-mounting [2-30](#)
- wall-mounting [2-27](#)
- See also procedures

installing SFP modules [2-33 to 2-34](#)

installing XENPAK modules [2-36 to 2-37](#)

J

jewelry removal warning [2-2](#)

L

LEDs

- color meanings [1-17](#)
- duplex [1-17](#)
- front panel [1-14](#)
- interpreting [1-17](#)
- master [1-16](#)
- PoE [1-17](#)
- port [1-17 to 1-19](#)
- port mode [1-17 to 1-19](#)
- POST results [3-2](#)
- RPS [1-16](#)

speed [1-17](#)
 stack [1-19](#)
 STATUS [1-17](#)
 system [1-15](#)
 troubleshooting with [3-1, 3-2](#)
 lightning activity warning [2-3](#)
 lightning surge caution [C-8](#)
 link status troubleshooting [3-3](#)
 local and national electrical codes compliance [2-5](#)

M

mode button [1-13](#)
 mounting, table or shelf [2-30](#)
 mounting, wall-mounting [2-27](#)
 mounting brackets
 attaching [2-14 to 2-23](#)
 rack-mount [2-24](#)
 MT-RJ connector [B-2](#)
 See also 100BASE-FX ports

N

NEBS standard for electromagnetic safety [2-5](#)
 Network Assistant [1-26](#)
 getting started guide [i-viii](#)
 to configure switch [2-45](#)
 Network Equipment Building Systems
 See NEBS
 noise, electrical [2-6](#)
 nonexposed wiring connections caution [C-8](#)

O

outside connections warning [2-4](#)
 overheating warning [2-2](#)

P

pinouts
 10/100/1000 ports [B-2](#)
 10/100 ports [B-2](#)
 console port [B-10](#)
 crossover cables
 four twisted-pair, 1000BASE-T ports [B-9](#)
 four twisted-pair 10/100 ports [B-7](#)
 two twisted-pair 10/100 ports [B-6](#)
 RJ-45-to-DB-25 terminal adapter [B-10](#)
 RJ-45-to-DB-9 terminal adapter [B-9](#)
 SFP module ports [B-3](#)
 straight-through cables
 four twisted-pair 10/100 ports [B-7](#)
 four twisted-pair 1000BASE-T ports [B-8](#)
 two twisted-pair 10/100 ports [B-6](#)
 plug-socket accessibility warning [2-4](#)
 PoE
 faults caution [1-18, 2-40](#)
 high-powered devices [1-11](#)
 LED [1-17](#)
 shock hazard warning [2-5, 2-39](#)
 troubleshooting [3-3](#)
 port and interface troubleshooting [3-4](#)
 port LEDs [1-17 to 1-19](#)
 port modes
 changing [1-13](#)
 LEDs [1-17](#)
 See also mode button
 ports
 10/100 [1-10](#)
 pinouts [B-2](#)
 recommended cables [2-40](#)
 10/100/1000 [1-10](#)
 pinouts [B-2](#)
 recommended cables [2-40](#)
 100BASE-FX patch cables [B-3](#)
 numbering of 10/100 [1-10](#)

- numbering of 10/100/1000 [1-10](#)
- numbering of SFP module ports [1-8 to 1-10](#)

POST

- LEDs [3-2](#)
- results [3-1](#)
- running at power on [3-2](#)
- running at powerup [2-7, D-6](#)

power

- connecting to [2-7](#)
- connectors [1-21, 1-25](#)
- specifications [A-2 to A-8](#)

power connection warning [2-3](#)

power on [2-7](#)

Power over Ethernet

See PoE

power supply

- AC power outlet [1-25](#)
- RPS connector [1-25](#)

procedures

- connection [2-39 to 2-45](#)
- DC grounding [C-2 to C-3](#)
- installation [2-11 to 2-30](#)

product disposal warning [2-4](#)

publications, related [i-viii](#)

R

rack-mounting [2-12 to 2-30](#)

rear panel

- clearance [2-6](#)
- description [1-21 to 1-26](#)

redundant power supply

See RPS

- removing SFP modules [2-34 to 2-35](#)
- removing XENPAK modules [2-38](#)
- restricted access area warning [2-4, C-1](#)
- RJ-45 connector, console port [B-4](#)
- RJ-45 console port [1-21](#)

RPS

- attachment warning [2-2, 2-7](#)
- connecting to [2-7](#)
- connector [1-25](#)
- connector cover warning [2-2, 2-28](#)
- LED [1-16](#)

S

safety [2-2](#)

SC connector [B-3](#)

serial number location [3-7](#)

servicing equipment warning [2-4, C-4](#)

SFP module rubber plugs caution [2-42](#)

SFP modules

1000BASE-T

- supported speeds [1-19](#)

bale-clasp latch removal [2-35](#)

cables [B-5](#)

caution [2-33, 2-34](#)

connecting to [2-41 to 2-43](#)

connectors [B-3](#)

described [1-12 to 1-13](#)

installation [2-33 to 2-34](#)

shelf-mounting [2-30](#)

shielding Ethernet cables warning [2-2](#)

Simple Network Management Protocol

See SNMP

SNMP network management platforms [1-27](#)

software switch management [1-26](#)

specifications [A-1 to A-9](#)

speed, troubleshooting [3-5](#)

stacking

cabling considerations [2-9](#)

connecting to a StackWise port [2-8](#)

examples [2-8](#)

planning considerations [2-8](#)

powering considerations [2-8](#)

stacking equipment warning [2-2](#)

StackWise cable caution [2-31](#)

StackWise ports [1-24](#)
 straight-through cable pinout
 four twisted-pair 10/100 ports [B-7](#)
 four twisted-pair 1000BASE-T ports [B-8](#)
 two twisted-pair 10/100 ports [B-6](#)
 SunNet Manager [1-27](#)
 support for Cisco Access Points [1-10](#)
 switch powering on [2-7](#)
 system LED [1-15](#)

T

table-mounting [2-30](#)
 technical specifications [A-1 to A-9](#)
 telco racks [2-12](#)
 Telnet, and accessing the CLI [1-27](#)
 temperature, operating [A-1 to A-9](#)
 terminal block wires caution [C-7](#)
 terminal emulation software [D-6](#)
 torquing the terminal block caution [C-6](#)
 troubleshooting [3-1 to 3-6](#)
 bad or damaged cable [3-2](#)
 connection problems [3-2](#)
 diagnosing problems [3-1](#)
 Ethernet and fiber-optic cables [3-2](#)
 link status [3-3](#)
 ping end device [3-4](#)
 PoE connections [3-3](#)
 port and interface settings [3-4](#)
 POST [3-1](#)
 spanning tree loops [3-4](#)
 speed, duplex, and autonegotiation [3-5](#)
 switch performance [3-5](#)
 with LEDs [3-2](#)
 troubleshooting spanning tree loops [3-4](#)

W

wall-mounting [2-27](#)
 warnings
 attaching the Cisco RPS [2-2, 2-7](#)
 Class 1 laser [2-3, 2-41, 2-44](#)
 code compliance [2-5](#)
 connecting outside of building [2-4](#)
 connecting the power [2-3](#)
 DC power [C-6](#)
 defined [i-vii](#)
 disposal of product [2-4](#)
 ground connection [2-4, C-2](#)
 installation [2-2](#)
 lightning activity [2-3](#)
 overheating [2-2](#)
 plug-socket accessibility [2-4](#)
 PoE shock hazard [2-5, 2-39](#)
 preventing bodily injury [2-3, 2-12](#)
 removing jewelry [2-2](#)
 removing power from DC circuit [C-4](#)
 restricted access area [2-4, C-1](#)
 RPS connector cover [2-2, 2-28](#)
 servicing equipment [2-4, C-4](#)
 shielding Ethernet cables [2-2](#)
 stacking equipment [2-2](#)
 wireless LAN controller [1-10](#)

X

XENPAK module rubber plugs warning [2-44](#)
 XENPAK modules [1-2, 1-13, B-4](#)
 caution [2-36](#)
 connecting to [2-44 to 2-45](#)
 installation [2-36 to 2-37](#)
 removal [2-38](#)
 XENPAK modules caution [2-36](#)