Catalyst 1900

This chapter provides information on the Catalyst 1900 switch. The information is organized into the following sections:

- Product Overview
- Standard Features
- Product Numbers

Note Documentation for the Cisco Catalyst 1900 is available in two forms: on a CD-ROM called Cisco Connection Documentation, Enterprise Series and printed books. A CD and hard-copy installation documentation ship with each chassis, and a configuration note ships with each component ordered. All configuration notes are available on the CD. Additional CDs and a subscription CD update service are also available.

You can also access Cisco technical documentation on the World Wide Web URL http://www.cisco.com. For more information, see the chapter "Documentation" at the end of the catalog.

Product Overview

The Catalyst 1900 is a standalone switch that boosts performance for Ethernet workgroups. With 25 switched Ethernet ports for individual workstations and 10BaseT hubs and two fixed 100BaseT ports for servers and backbones, the Catalyst 1900 provides Ethernet switching to 100BaseT networks.
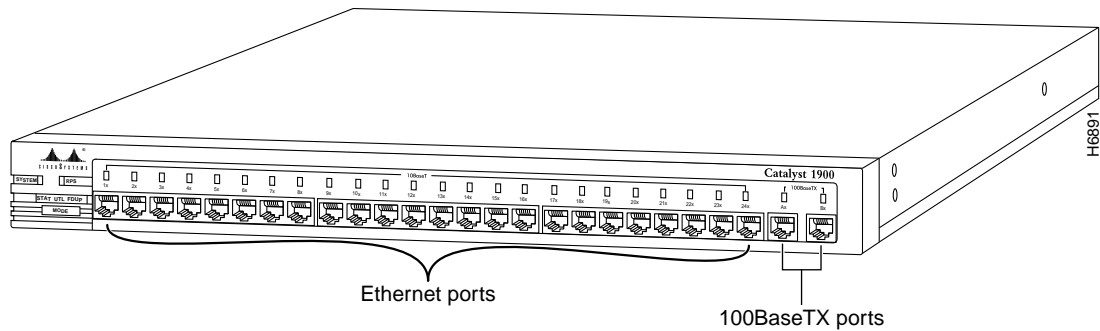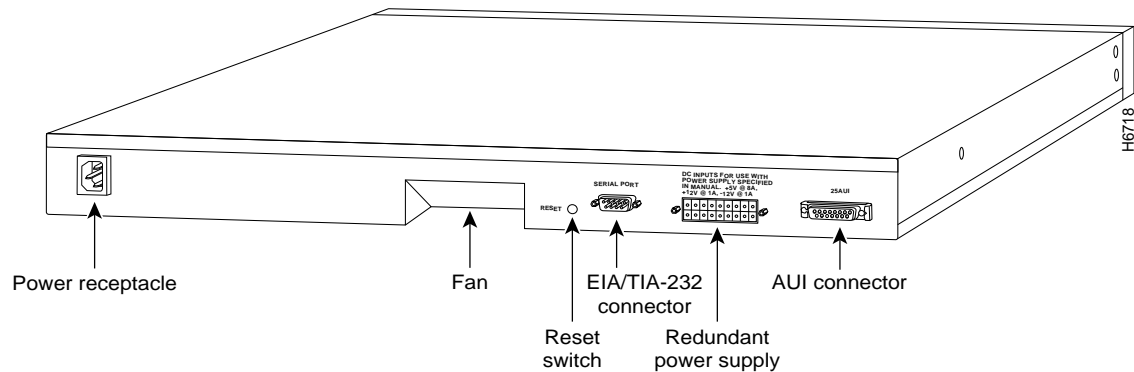
Figure 130 Catalyst 1900 Front View

Ethernet ports

100BaseTX ports

Figure 131 Catalyst 1900 Rear View

Power receptacle

Fan

EIA/TIA-232 connector

AUI connector

Reset switch

Redundant power supply

Table 264   Catalyst 1900 Summary of Features

Characteristic	Description
Reliability	50,000 hours MTBF
Weight	10.5 lb (4.78 kg)
Dimensions (H x W x D)	1.73 x 17.5 x 15.3" (4.39 x 44.45 x 38.86 cm)

Table 265   Catalyst 1900 Environmental Specifications

Characteristic	Description
Operating temperature	32–104˚F (0–40˚C)
Operating humidity	10% to 90%
Operating altitude	Up to 10,000 feet
Power consumption	65 Watts
Input voltage	90 to 250 volts, 50 to 60 Hz

Standard Features

The Catalyst 1900 includes the following features:

- 25 switched Ethernet ports: 24 10BaseT and one AUI.

  The 10BaseT ports use RJ-45 connectors to connect to single workstations, 10BaseT hubs, or any 10BaseT compatible device. The attached devices use standard 10BaseT adapters and wiring. Port 25, located on the back panel, supports an alternative AUI connection for attachment to a thick coaxial, thin coaxial, or a fiber-optic media transceiver.

- Two fixed 100BaseT ports (for server or backbone connectivity)

  One or both of these can be set to CollisionFree full-duplex mode for full-duplex operation. Each 100BaseT port is internally switched to the other Catalyst 1900 ports.

- Multiple MAC address support for 1024-address cache shared among all 27 ports.

- CollisionFree operation for full-duplex 100BaseT, providing up to 200-Mbps bandwidth and extended distances using fiber cabling.

- CiscoView device-management support.

- IEEE 802.1d Spanning-Tree Protocol.

- Up to 320-Mbps maximum forwarding bandwidth and 450,000 packets per second (pps) aggregate packet-forwarding rate.

- Shared memory architecture with 3-Mb packet buffer.

- Supporting connection to a redundant power supply.

- Telnet and SNMP support for in-band management and a menu-driven out-of-band management console.

- Up to four port-configurable virtual LANs (VLANs).

- Multicast address registration and packet filtering.

- Port security to prevent unauthorized access to the network.

- Flooding controls.

- Broadcast storm control.

Configuring and Managing a Catalyst 1900

You can configure and manage a Catalyst 1900 using any SNMP-compatible management station, or you can connect an ASCII terminal to the switch via the EIA/TIA-232 port and use the management console. The management console is also accessible via Telnet.

Using the Management Console

The management console provides a menu-driven interface for configuring and monitoring your network. The application is password-protected and locks out a user who fails to enter the password within a definable number of attempts. In such a case, the network administrator can be alerted via in-band management.

Most of the statistics and information generated by the switch are available through the management console. You can continue to use it even when the network is down.

SNMP Management

The Catalyst 1900 is fully manageable by any SNMP-compatible management station. The product supports all pertinent SNMP MIB II variables, the 802.1d bridge MIB, and a comprehensive set of MIB extensions designed for maximum support of the switch's hub and switching capabilities.

Supported Network Management Platforms

The Catalyst 1900 SNMP MIBs are supplied in ASCII format for compiling into any SNMP network management system using a general MIB browser. You can display switch information from the following network management platforms.

- Castle Rock SNMPc
- Novell NMS
- HP OpenView
- SunNet Manager

CiscoView

You can use the CiscoView graphical user interface to configure your Catalyst 1900 switch and to generate the same statistics available through the management console.

Product Numbers

Table 266 lists the product numbers you can use to order the Catalyst 1900 switch.

Table 266   Catalyst 1900 Product Numbers

Description	Product Numbers
Catalyst 1900 (2 100BaseTX ports)	WS-C1900
Catalyst 1900 (1 100BaseTX and 1 100BaseFX port)	WS-C1900C
SMARTnet maintentance contract	CON-SNT-WS-C1900