



Doc. No. 78-3633-01 Rev. A0

# Catalyst 2820 and Catalyst 1900 Installation and Configuration Notes

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**October 29, 1996**

This document describes the caveats and product enhancements you should consider when installing and configuring the Catalyst 2820 or Catalyst 1900. The complete product documentation for these products is as follows:

- *Catalyst 2820 and Catalyst 1900 User Guide*
- *Catalyst 2820 Modules User Guide*
- *Catalyst 2820 and Catalyst 1900 MIB Reference Manual*

## Changing the Switch Configuration with the Management Console

When you change switch configuration parameters with the management console, the changes take effect immediately. However, changed parameters might not be written to permanent storage for up to 30 seconds. If you turn off the switch before the new parameters are written to permanent storage, the change does not take effect.

## Utilization LEDs

Utilization LEDs show the current and peak bandwidth utilization of the switch. The peak utilization is recorded in the bandwidth-capture interval. The default setting for this interval is 24 hours; it is recorded each night at midnight.

Invoke the utilization mode by pressing the Mode button and releasing it when UTL is highlighted. Current bandwidth is shown with a series of lit LEDs topped by a rapidly blinking one. Peak bandwidth is indicated by the right-most solidly lit LED.

Change the bandwidth-capture interval with the Bandwidth Usage Report described in the “Out of Band Management” chapter of the *Catalyst 2820 and Catalyst 1900 User Guide*. Table 1 shows the bandwidth utilization scale.

Note that LED 1 indicates any traffic from 0 to 0.2 Mbps.

**Table 1    Bandwidth Utilization Scale**

Port LEDs	Mbps
1 to 8	0.1 to 5
9 to 16	6 to 100
12 to 24	120 to 280

Upgrading Switch Firmware

While the switch firmware is being upgraded, the switch might not respond to commands for as long as one minute. This is normal and correct. If you turn the switch off and on, you interrupt the transfer and the firmware could be corrupted. If this happens, restart your switch following the procedure described in “Using the Diagnostic Console” in the chapter “Troubleshooting” of the *Catalyst 2820 and Catalyst 1900 User Guide*. The complete procedure for upgrading firmware is in the “Out-of-Band Management” chapter.

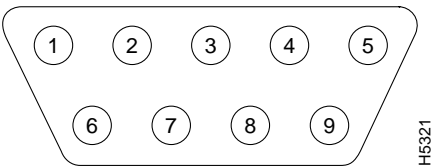
IP Address Reset

The first time you assign an IP address, the IP address takes effect immediately. When you change the IP address, however, the switch has to be reset for the IP address to take effect. To reset the switch, select **R** (Reset) from the System Menu described in the “Out-of-Band Management” chapter of the *Catalyst 2820 and Catalyst 1900 User Guide*.

Serial Connector Pinouts

The serial connector is a male 9-pin D-Sub connector, as shown in Figure 1.

**Figure 1    Serial Connector**



The pinouts are shown in Table 2.

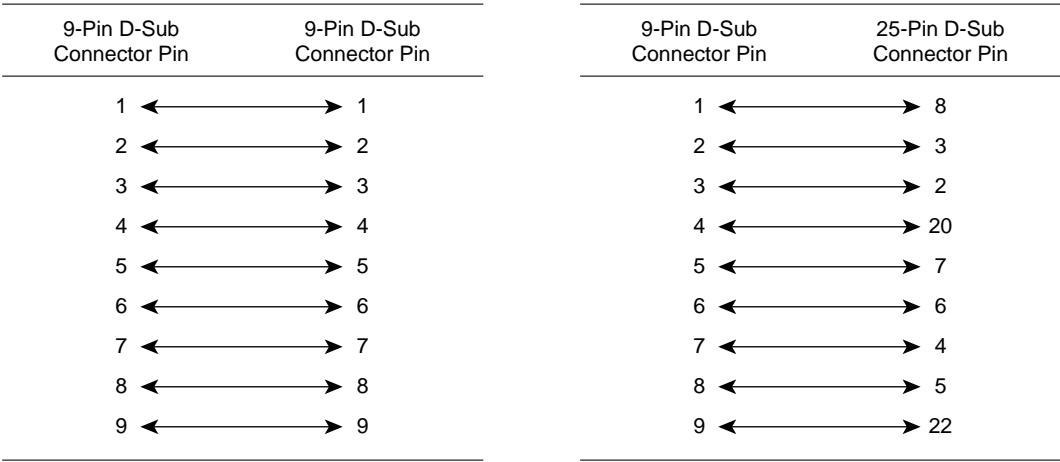
Table 2 Serial Connector Pinout

1	DCD
2	RD
3	TD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI

The shell is connected to the chassis ground. Use a standard modem cable to connect to a modem. Use a null-modem cable to connect to a terminal.

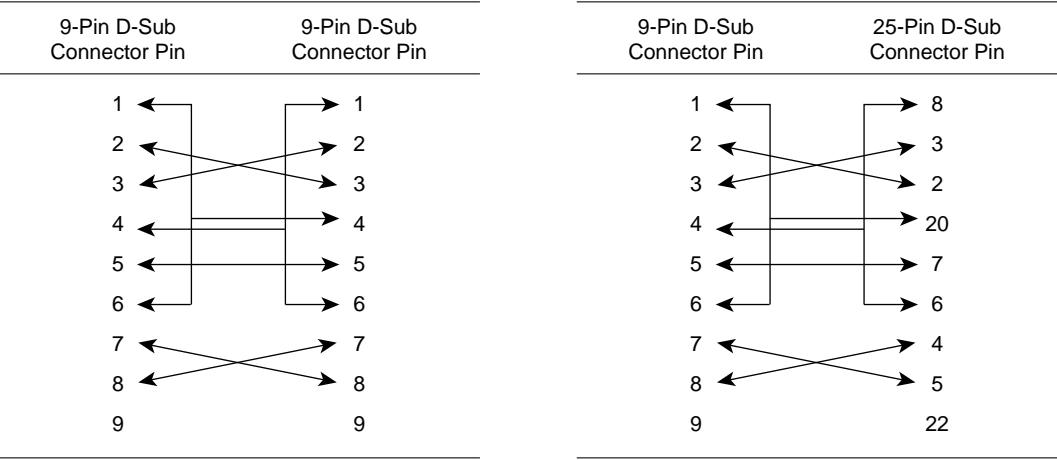
Either piece of equipment can come with either 9- or 25-pin connectors, as shown in Figure 2 and Figure 3.

Figure 2 Modem Cable Schematic with 9- and 25-Pin Devices



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Figure 3 Null-Modem Cable Schematic with 9- and 25-Pin Devices

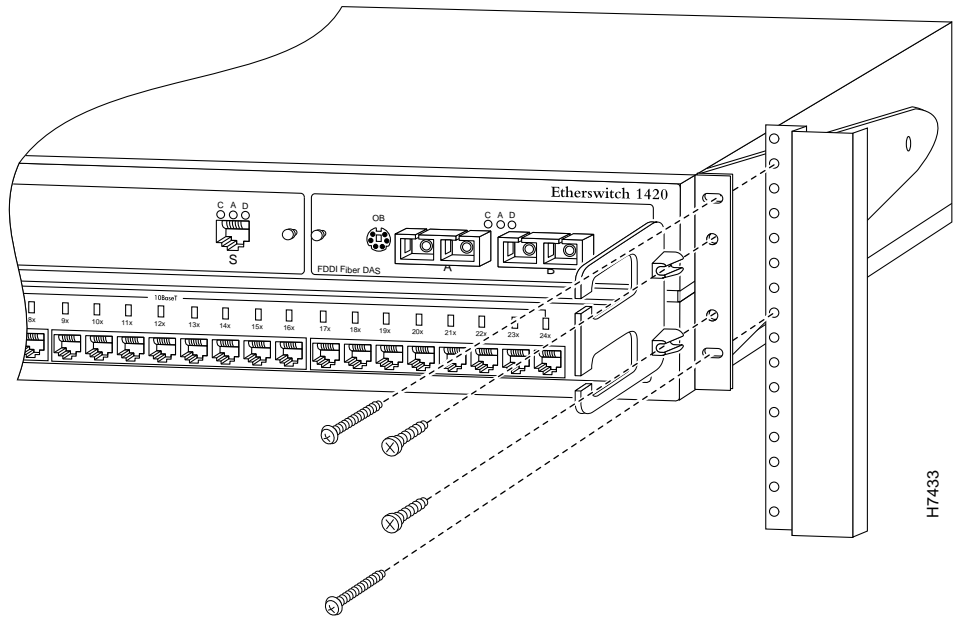


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Using the Rack-Mounted Cable Guide

One cable guide is included with the switch. Attach this cable guide after you rack-mount the switch. Figure 4 shows the location of the cable-guide screws.

Figure 4 Installing the Cable Guides



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This document is to be used in conjunction with the *Catalyst 2820 and Catalyst 1900 User Guide*.

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