Firmware Download Instruction
Windows 95, NT and Windows 2000

Before beginning the firmware download, make sure to have **IP address**, **user name** of the **host machine** and **IP address of the switch**. Make sure that the current switch configuration data has been saved, it must be available for reload if needed.

If you are not sure the current switch configuration data is available, see Telnet commands "**configUpload**" and "**configDownload**" in the Command Reference for OS 3.0 and 4.0 for procedure to upload and download the switch configuration file.

1. Download New Firmware: [2109 Model F16 or 3534 Model F08](#)

2. Download and save the latest firmware and rsh.zip into a directory. Un-zip all files into the same directory (ie. c:\firmware).

3. Have the customer isolate this switch and ensure that all I/O operations through the switch have stopped.

4. Open a DOS windows, go to firmware directory (cd firmware), enter: **rshd** [to execute the RSH daemon] and **keep** the windows opened.
    Example: **C:\firmware>rshd**

5. From a **second** DOS windows start a Telnet session to the switch over Ethernet LAN-attached that has connectivity to the switch.
    Format is: **c:\>telnet** [switch ipAddress]

6. Login using the admin userid: login: **admin**

7. Password: **password**

8. Type the following command to download firmware:
    firmwaredownload "ipAddress"], ["userName"], ["fileName"]
            userName is PC's user name
            ipAddress is PC's ipAddress.

    Example:
    switch:admin>
    firmwareDownload "9.111.23.1", "John", "**c:/firmware/v3.0.2f**"

    89640+6024+130948, csum 6132
    DO NOT power cycle the switch!
    writing flash 0 ....
    writing flash 1 ....
    download complete
    switch:admin>

9. The switch will need to be rebooted following the firmware download.

switch:admin> fastboot

NOTE: When reboot the switch the Telnet session will be disconnected.

10. Do step 5, 6 and 7 to Telnet back to the switch.

11. Verify the new level of firmware has been installed and everything is functional.
    switch:admin> version