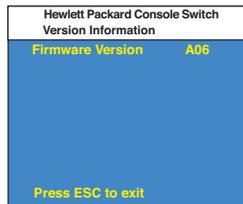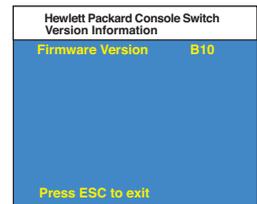# B: FLASH Upgrading

Hardware/Software Requirements:

- Rackmount console switch
- Serial host system (i.e. laptop or desktop computer)
- 9-pin straight pass non-null modem serial cable (RS-232)
- HyperTerminal or other terminal emulation software (HyperTerminal is included with MS Windows 95, 98, NT, and 2000)
- FLASH code file (downloaded firmware revision)

To upgrade the FLASH code on your Rackmount Console Switch, you will first need to determine if your unit is running A or B revision code. To do this, select the menu choice 'Version Information' from the Command menu. The first letter of the revision code displayed will determine if your unit uses the A or B code.

Hewlett Packard Console Switch Administrator Command Menu
Add Port
Edit Port
Delete Port
Administrative Functions
Scanning is OFF
Reset Standard Mse/Kbd
Reset Wheel Mse/Kbd
Version Information
ENTER = activate   ESC = exit

Hewlett Packard Console Switch Version Information
Firmware Version   A06
Press ESC to exit

A Rev Code

Hewlett Packard Console Switch Version Information
Firmware Version   B10
Press ESC to exit

B Rev Code

You will next need to obtain the latest FLASH firmware revision from Hewlett-Packard. It is available through the Hewlett-Packard web site at www.hp.com/go/enclosures.
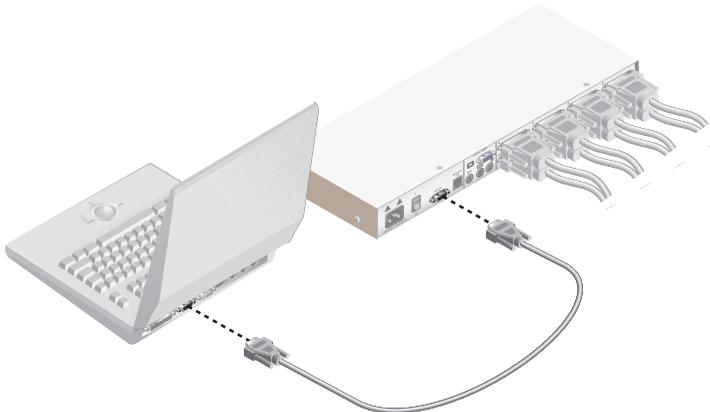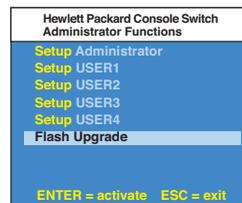
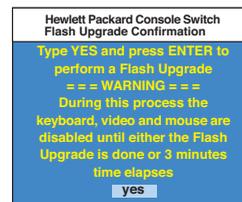**Instructions for Console Switches with Revision Code A**

1. Connect the 9-pin serial cable between the Rackmount Console Switch and the serial host system.

2. From your server, activate the OSD menu on your Rackmount Console Switch by tapping the **Control** key twice. Enter **Control** twice more to activate the Administrator Commands screen and then select Administrator Functions.


```
Hewlett Packard Console Switch
Administrator Command Menu
Add Port
Edit Port
Delete Port
Administrative Functions
Scanning is OFF
Reset Standard Mse/Kbd
Reset Wheel Mse/Kbd
Version Information
ENTER = activate    ESC = exit
```

3. Use the down arrow key to highlight the menu selection for FLASH Upgrade, then press **Enter**.


```
Hewlett Packard Console Switch
Administrator Functions
Setup Administrator
Setup USER1
Setup USER2
Setup USER3
Setup USER4
Flash Upgrade


ENTER = activate    ESC = exit
```

4. A menu screem will appear and ask if you wish to continue. You must type 'Yes' before preceding. Once you have done this, the switch will go into standby mode and wait for data from the server. (Note: The keyboard, video and mouse are disabled during FLASH upgrade.)


```
Hewlett Packard Console Switch
Flash Upgrade Confirmation
Type YES and press ENTER to
perform a Flash Upgrade
= = = WARNING = = =
During this process the
keyboard, video and mouse are
disabled until either the Flash
Upgrade is done or 3 minutes
time elapses
yes
```

5. Using HyperTerminal to upgrade the FLASH code*

a. From your serial host system start HyperTerminal by clicking the **Start** button, then selecting Programs, Accessories, and HyperTerminal in Windows 95, 98, or NT.

b. Choose an appropriate name (FLASH) and click OK. (you do not have to select an icon)

c. A pop-up window will appear, select an available port and click OK.

d. A new pop-up window will appear. Change to the following parameters:

Bits per second	38,400
Data Bits	8
Parity	None
Stop Bits	1
Flow Control	None

e. A blank screen will appear. From the top bar, select Transfer then Send Text File.

f. Change File Type to 'All Files' and find the downloaded firmware revision on your hard drive and click OK.
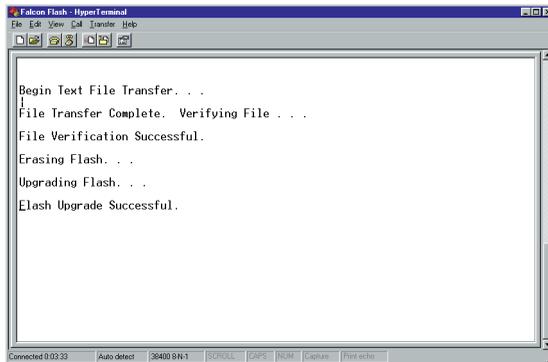
The Rackmount Console Switch will automatically check the upgrade and make sure that it is valid. If the switch detects an error, it will abort the upgrade and retain the original OSD firmware. Otherwise, it will return the message, "Flash Upgrade Successful". If the file read does not validate, you will be prompted to re-transfer your file.
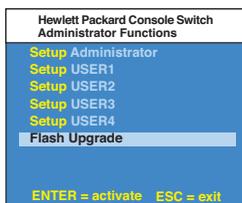
* Step 5 processes are for HyperTerminal only. Other emulation packages may have different steps.

Instructions for Console Switches with Revision Code B

1. Connect the 9-pin serial cable between the Rackmount Console Switch and the serial host system.

2. From your server, activate the OSD menu on your Rackmount Console Switch by tapping the **Control** key twice. Enter **Control** twice more to activate the Administrator Commands screen and then select Administrator Functions.

```
     Hewlett Packard Console Switch
       Administrator Command Menu
   Add Port
   Edit Port
   Delete Port
   Administrative Functions
   Scanning is OFF
   Reset Standard Mse/Kbd
   Reset Wheel Mse/Kbd
   Version Information

     ENTER = activate    ESC = exit
```

3. Use the down arrow key to highlight the menu selection for FLASH Upgrade, then press **Enter**.

```
     Hewlett Packard Console Switch
        Administrator Functions
   Setup Administrator
   Setup USER1
   Setup USER2
   Setup USER3
   Setup USER4
   Flash Upgrade


     ENTER = activate    ESC = exit
```
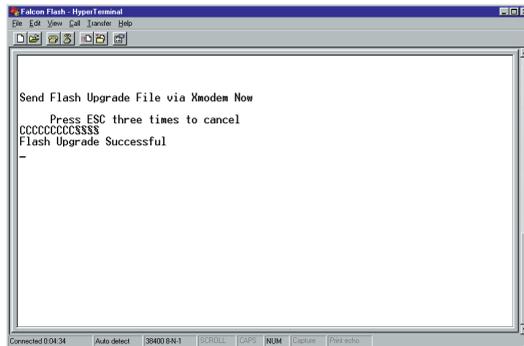
4. A menu screem will appear and ask if you wish to continue. You must type 'Yes' before preceding. Once you have done this, the switch will go into standby mode and wait for data from the server. (Note: The keyboard, video and mouse are disabled during FLASH upgrade.)

```
     Hewlett Packard Console Switch
       Flash Upgrade Confirmation
   Type YES and press ENTER to
     perform a Flash Upgrade
       = = = WARNING = = =
      During this process the
   keyboard, video and mouse are
   disabled until either the Flash
   Upgrade is done or 3 minutes
          time elapses
              yes
```

5. Using HyperTerminal to upgrade the FLASH code*

    a. From your serial host system, start HyperTerminal by clicking the **Start** button, then selecting Programs, Accessories, and HyperTerminal in Windows 95, 98, or NT.
    b. Choose an appropriate name (FLASH) and click OK. (you do not have to select an icon)
    c. A pop-up window will appear, select an available port and click OK.
    d. A new pop-up window will appear. Change to the following parameters:

Bits per second	38,400
Data Bits	8
Parity	None
Stop Bits	1
Flow Control	None

    e. A blank screen will appear. From the top bar, select Transfer then Send File. Browse for the downloaded firmware revision and highlight it. Click **Open** to dowload this file. On the same screen, change the protocol to XMODEM. Click **Send** to begin the download.

6. The Rackmount Console Switch will automatically check the upgrade and make sure that it is valid. If the switch detects an error, it will abort the upgrade and retain the original OSD firmware. Otherwise, it will return the message, "Flash Upgrade Successful". If the file read does not validate, you will be prompted to re-transfer your file.

* Step 5 processes are for HyperTerminal only. Other emulation packages may have different steps.