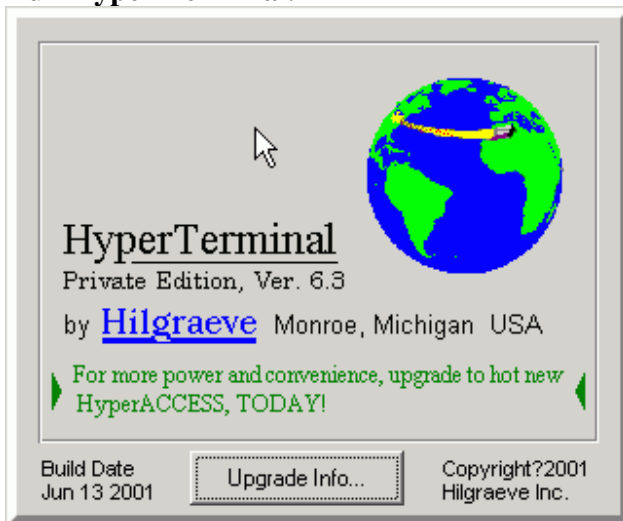


ACS-7630/76130/75170/76510 F/W upgrade procedure

Steps:

Note: You need to use a different computer to do the job. You can not upgrade the firmware from the same computer where the RAID unit is installed.

1. Download the Hyper Terminal 6.3 from internet. The windows default hyper terminal may not work on some systems.
2. Run Hyper Terminal.



3. Give a name.

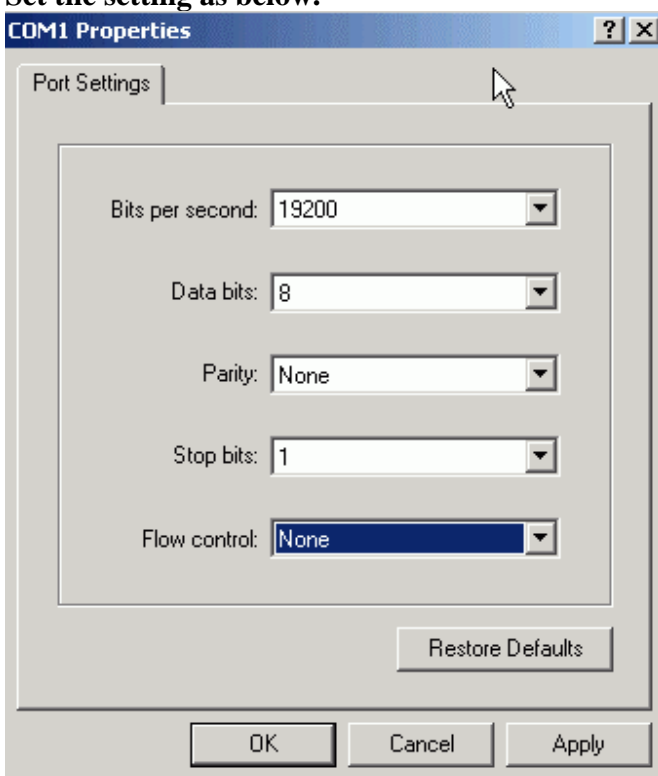


4. Choose the COM port where you connected the RS-232 cable.



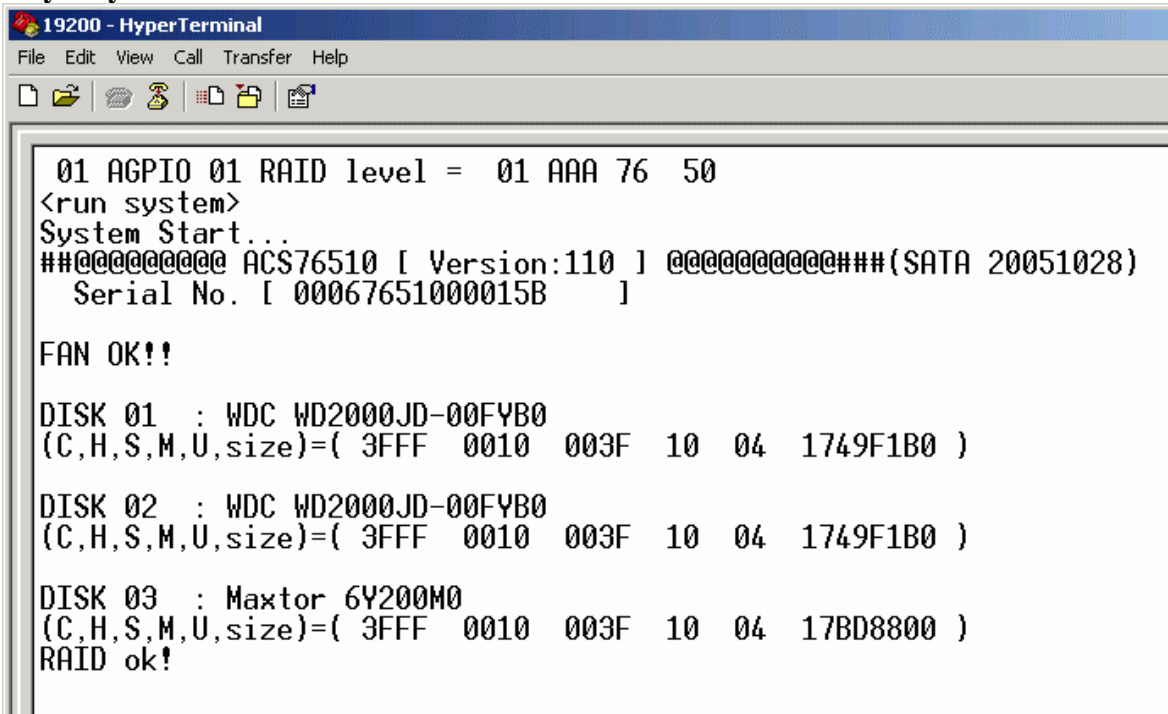
The 'Connect To' dialog box is shown. It has a title bar with a question mark and a close button. Below the title bar is a red telephone icon and the number '76510'. The text 'Enter details for the phone number that you want to dial:' is displayed. There are four input fields: 'Country/region:' with a dropdown menu showing 'United States (1)', 'Area code:' with a text box containing '510', 'Phone number:' with an empty text box, and 'Connect using:' with a dropdown menu showing 'COM1'. At the bottom are 'OK' and 'Cancel' buttons.

5. Set the setting as below.



The 'COM1 Properties' dialog box is shown. It has a title bar with a question mark and a close button. The 'Port Settings' tab is selected. The dialog box contains five settings: 'Bits per second:' with a dropdown menu showing '19200', 'Data bits:' with a dropdown menu showing '8', 'Parity:' with a dropdown menu showing 'None', 'Stop bits:' with a dropdown menu showing '1', and 'Flow control:' with a dropdown menu showing 'None'. At the bottom right is a 'Restore Defaults' button. At the very bottom are 'OK', 'Cancel', and 'Apply' buttons.

6. You should see a screen as below. If the unit is turned on before you start Hyper Terminal, you may only see a blank screen.



19200 - HyperTerminal

File Edit View Call Transfer Help

01 AGPIO 01 RAID level = 01 AAA 76 50
<run system>
System Start...
ACS76510 [Version:110] #####(SATA 20051028)
Serial No. [00067651000015B]

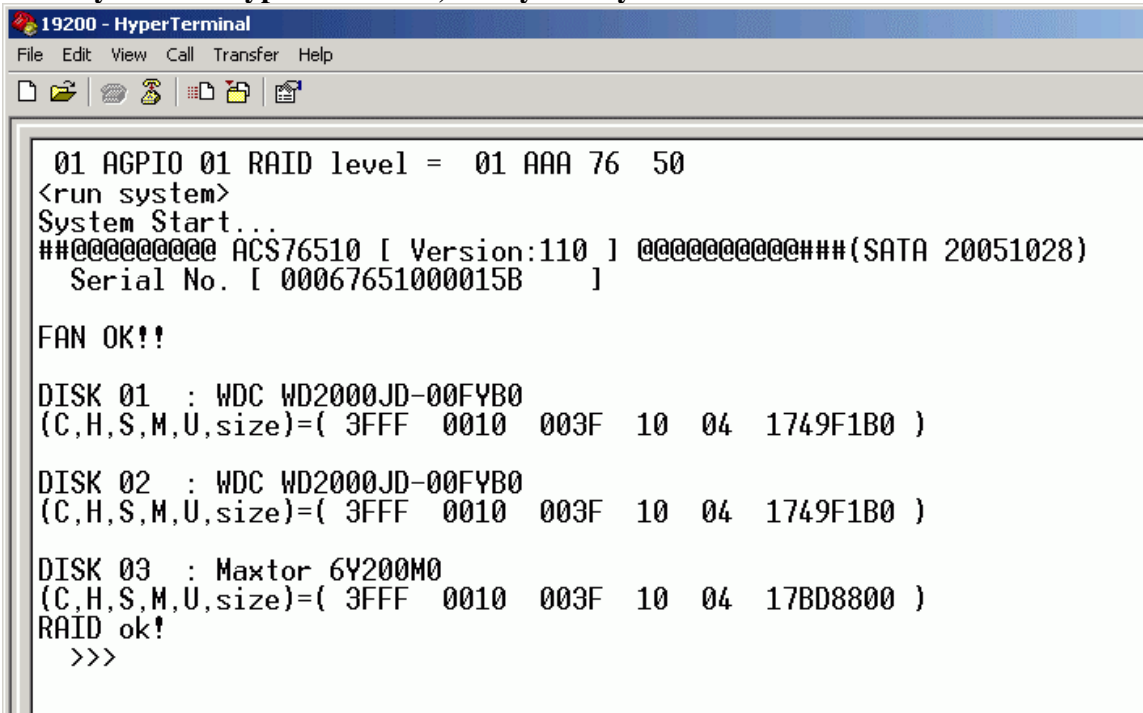
FAN OK!!

DISK 01 : WDC WD2000JD-00FYB0
(C,H,S,M,U,size)=(3FFF 0010 003F 10 04 1749F1B0)

DISK 02 : WDC WD2000JD-00FYB0
(C,H,S,M,U,size)=(3FFF 0010 003F 10 04 1749F1B0)

DISK 03 : Maxtor 6Y200M0
(C,H,S,M,U,size)=(3FFF 0010 003F 10 04 17BD8800)
RAID ok!

7. Press Esc key on your keyboard, you will see >>> on the screen. If your RAID unit was on before you start Hyper Terminal, here you may see >>> but without the information of the unit.



19200 - HyperTerminal

File Edit View Call Transfer Help

01 AGPIO 01 RAID level = 01 AAA 76 50
<run system>
System Start...
ACS76510 [Version:110] #####(SATA 20051028)
Serial No. [00067651000015B]

FAN OK!!

DISK 01 : WDC WD2000JD-00FYB0
(C,H,S,M,U,size)=(3FFF 0010 003F 10 04 1749F1B0)

DISK 02 : WDC WD2000JD-00FYB0
(C,H,S,M,U,size)=(3FFF 0010 003F 10 04 1749F1B0)

DISK 03 : Maxtor 6Y200M0
(C,H,S,M,U,size)=(3FFF 0010 003F 10 04 17BD8800)
RAID ok!
>>>

8. Type download and the RAID unit will restart automatically. You will see a menu where you can ask you to enter 1 to start firmware update. If you press 1 key too slow the RAID unit will boot up completely, if this is the case, press Esc key then type download to restart this step.

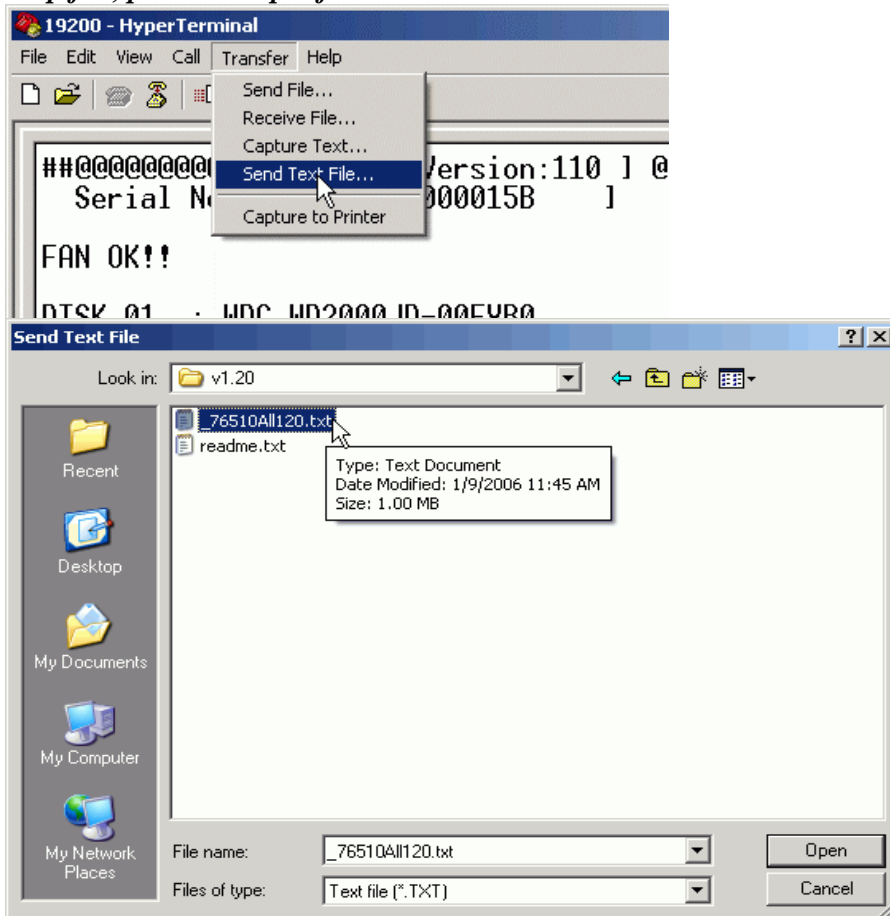
```
DISK 02 : WDC WD2000JD-00FYB0
(C,H,S,M,U,size)=( 3FFF 0010 003F 10 04 1749F1B0 )

DISK 03 : Maxtor 6Y200M0
(C,H,S,M,U,size)=( 3FFF 0010 003F 10 04 17BD8800 )
RAID ok!
>>> download
restart... 01 AGPIO 01 RAID level = 01 AAA 01 01
===== 76510 Download Mode =====

Enter '1' to Download Code (Firmware,BootCode)
      'ESC' exit
      'r' reset

----- Version: Boot ---- 10 (a)----- 04 Downlodng Code!
Flash type: MX29LV040QC
```

9. From the drop down menu of Hyper Terminal, choose Transfer -> Send Text File... and then choose the firmware file you have and click open. *Note: the firmware is in .txt format. If you get a zip file, please unzip it first.*



10. During the update, some numbers will show up to indicate the firmware update is in progress.

```
>>> download
restart... 01 AGPIO 01 RAID level = 01 AAA 01 01
===== 76510 Download Mode =====

Enter '1' to Download Code (Firmware,BootCode)
      'ESC' exit
      'r' reset

----- Version: Boot ---- 10 (a)----- 04 Downlodng Code!
Flash type: MX29LV040QC

Download code now...
CAUTION ! DO NOT TURN OFF THE SYSTEM OR INTERRUPT PROGRAM.
00008000 00010000 00018000 00020000 00028000 00030000 00038000 00040000
```

11. After success download, the RAID unit will reboot automatically, the new firmware version will show on the screen.

```
19200 - HyperTerminal
File Edit View Call Transfer Help

01 AGPIO 01 RAID level = 01 AAA 76 50
<run system>
System Start...
##### ACS76510 [ Version:120 ] #####(SATA 20051228)
Serial No. [ 00067651000015B ]

FAN OK!!

DISK 01 : WDC WD2000JD-00FYB0
(C,H,S,M,U,size)=( 3FFF 0010 003F 10 04 1749F1B0 )

DISK 02 : WDC WD2000JD-00FYB0
(C,H,S,M,U,size)=( 3FFF 0010 003F 10 04 1749F1B0 )

DISK 03 : Maxtor 6Y200M0
(C,H,S,M,U,size)=( 3FFF 0010 003F 10 04 17BD8800 )
RAID ok!
```

12. Firmware update is done.