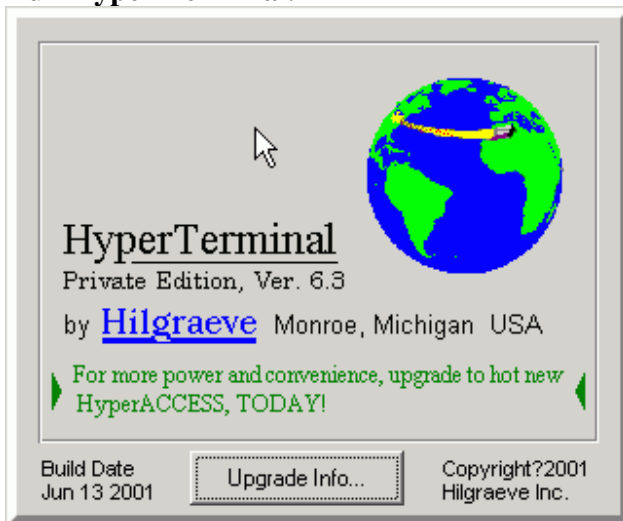# ACS-7630/76130/75170/76510 F/W upgrade procedure

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.**
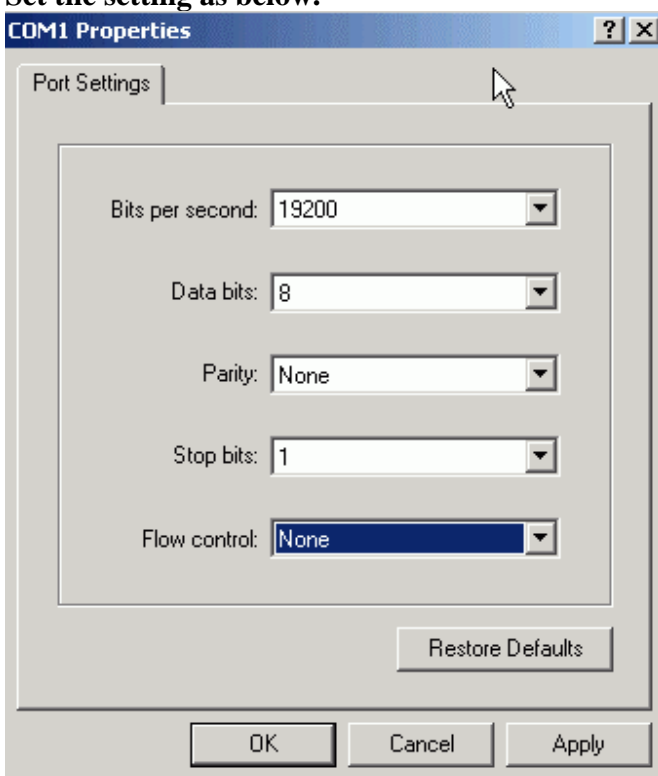
2. **Run Hyper Terminal.**

3. **Give a name.**

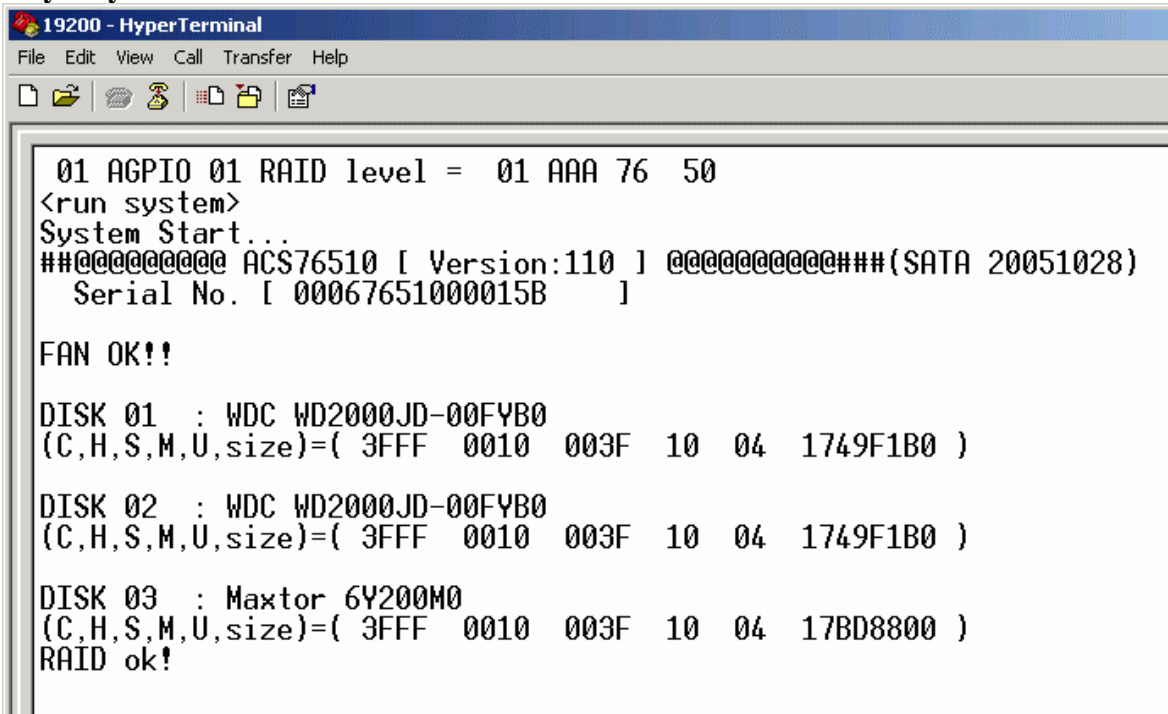**4. Choose the COM port where you connected the RS-232 cable.**

5. Set the setting as below.

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.

```
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.

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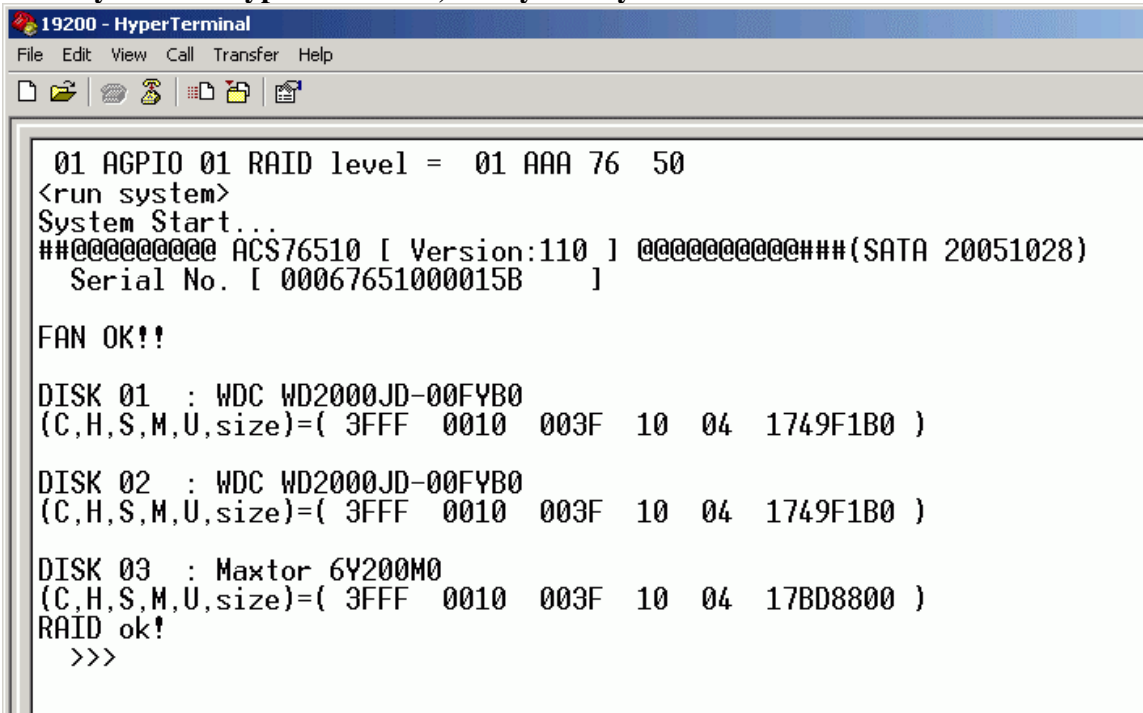
8. **Type download and the RAID unit will restart automatically. You will see a menu where you can ask you to enter 1 to start firmware update. If you press 1 key too slow the RAID unit will boot up completely, if this is the case, press Esc key then type download to restart this step.**

```
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 Downloding Code!
 Flash type: MX29LV040QC
```

Connected 1:03:56 | ANSI | 19200 8-N-1 | SCROLL | CAPS | NUM | Capture | Print echo

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 Downloding 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
```
```
Connected 1:10:46   | ANSI | 19200 8-N-1 | SCROLL | CAPS | NUM | Capture | Print echo
```

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!
```
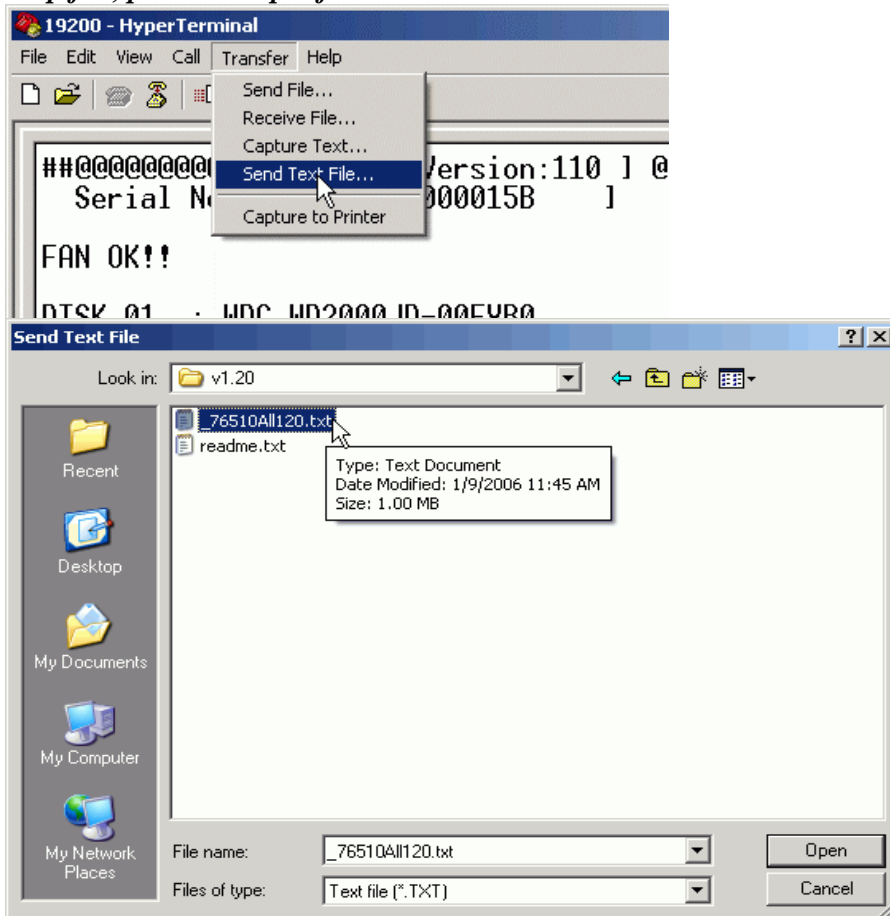```
Connected 1:18:54 | ANSI | 19200 8-N-1 | SCROLL | CAPS | NUM | Capture | Print echo
```

**12. Firmware update is done.**