

Nova series update F/W & Boot code from Boot Utility

Purpose:

Update firmware/boot code from Boot Utility

Product Affect:

Nova 20S, Nova 20R, Nova 26S, Nova 26R, Nova 27S, Nova 29S, Nova 30S, Nova 30R, Nova 39S, Nova 36S, Nova 36R, Nova 37S, Nova 40S, Nova 40R, Nova 46S, Nova 46R, Nova 47S, Nova 49S,

Two methods for upgrade F/W & Boot code:

I. By Web Browser

II. By Terminal Console (page 3)

I. By Web Browser

[Preparations](#)

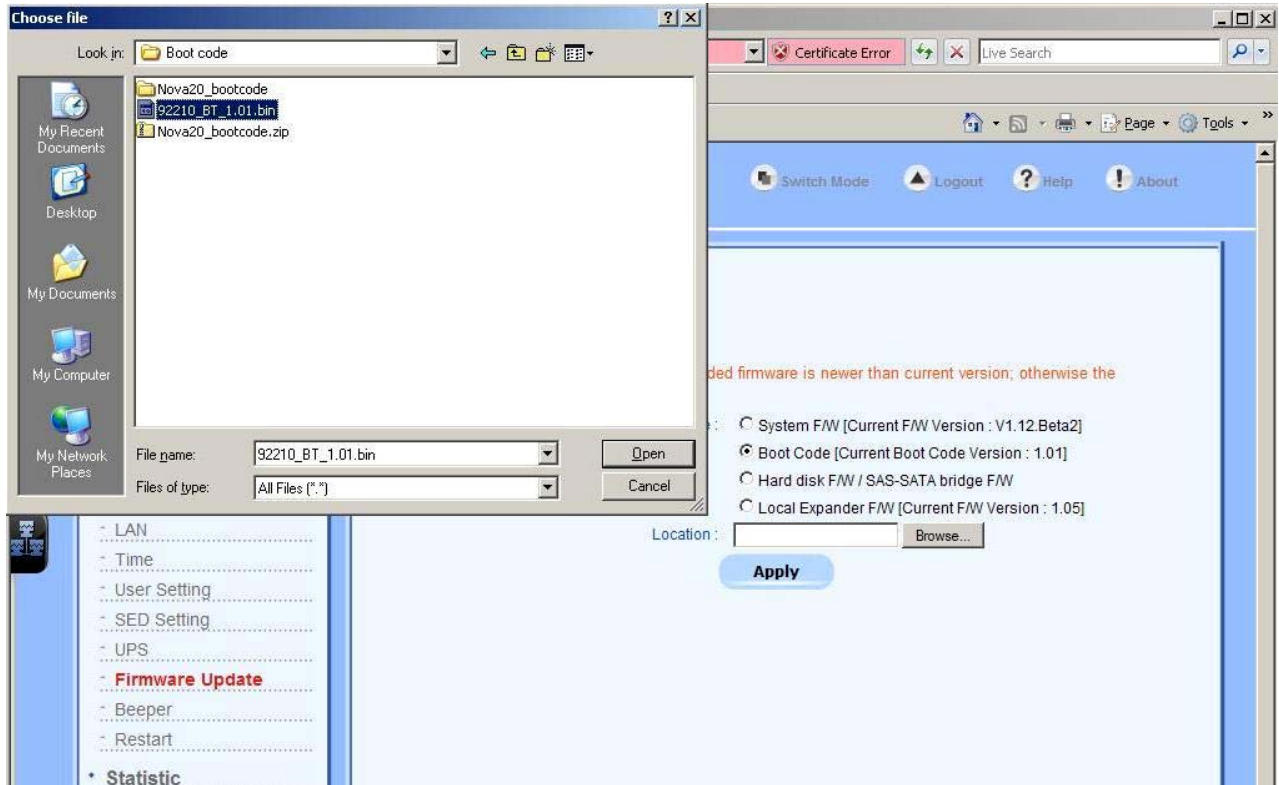
[Procedure of upgrade firmware/boot code](#)

1. Preparations

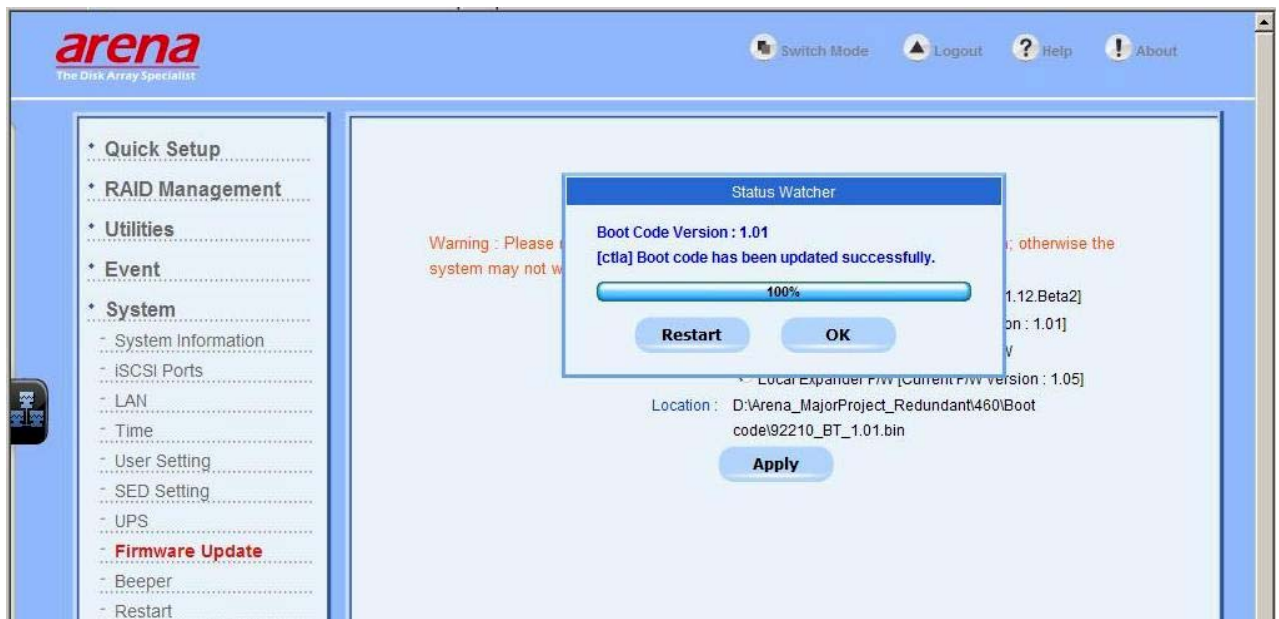
- A. Download and unzip the latest firmware/boot code from web-site
<http://www.maxtronic.com/fw-download>.
- B. RJ45 cross-cable (or through a hub/switch) to connect LAN ports between RAID and computer

2. Procedure of upgrade firmware/boot code

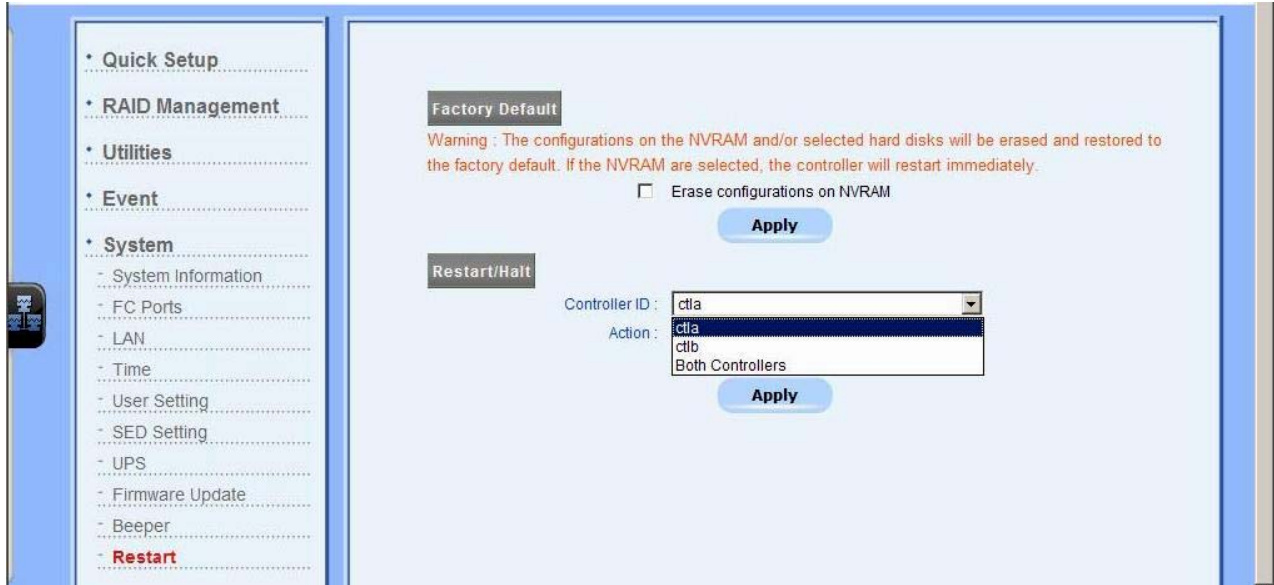
- A. Input RAID GUI IP address in the Web Browser
- B. Login GUI management screen by user name and password (Default user name: admin, Password: 0000)
- C. Click System→Firmware Update
- D. Select Boot code or system F/W item, and then click Browse to open boot code or firmware file



E. When upgrade process 100%, click OK button.



F. Click System→Restart→select single or both controllers to reboot RAID



II. By Terminal Console

1. Preparations

- A. Download and unzip the latest firmware/boot code from web-site <http://www.maxtronic.com/fw-download>.
- B. Computer includes a Serial COM and LAN ports.
- C. Serial cable (null cable) to connect COM ports between RAID and computer; RJ45 cross-cable (or through a hub/switch) for LAN ports.
- D. Terminal (e.g. hyper terminal or Tera Term) and tftp utility (e.g. Tftp).

3. Procedure of upgrade firmware/boot code

- A. Connect serial cable to COM port and connect Ethernet cable to LAN port between computer and RAID system (as the **Figure-1**)

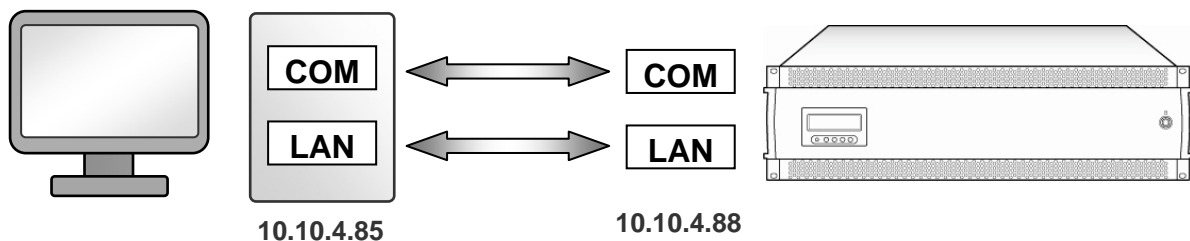
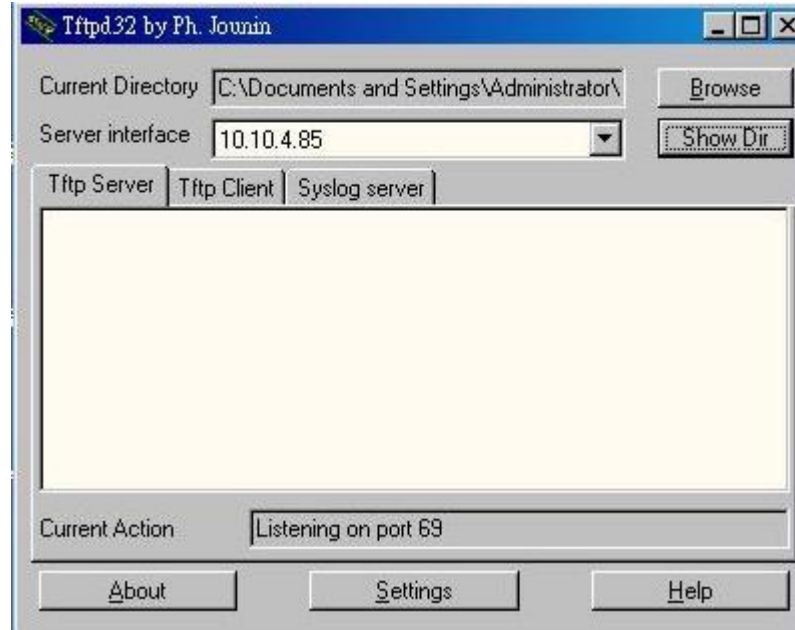


Figure-1

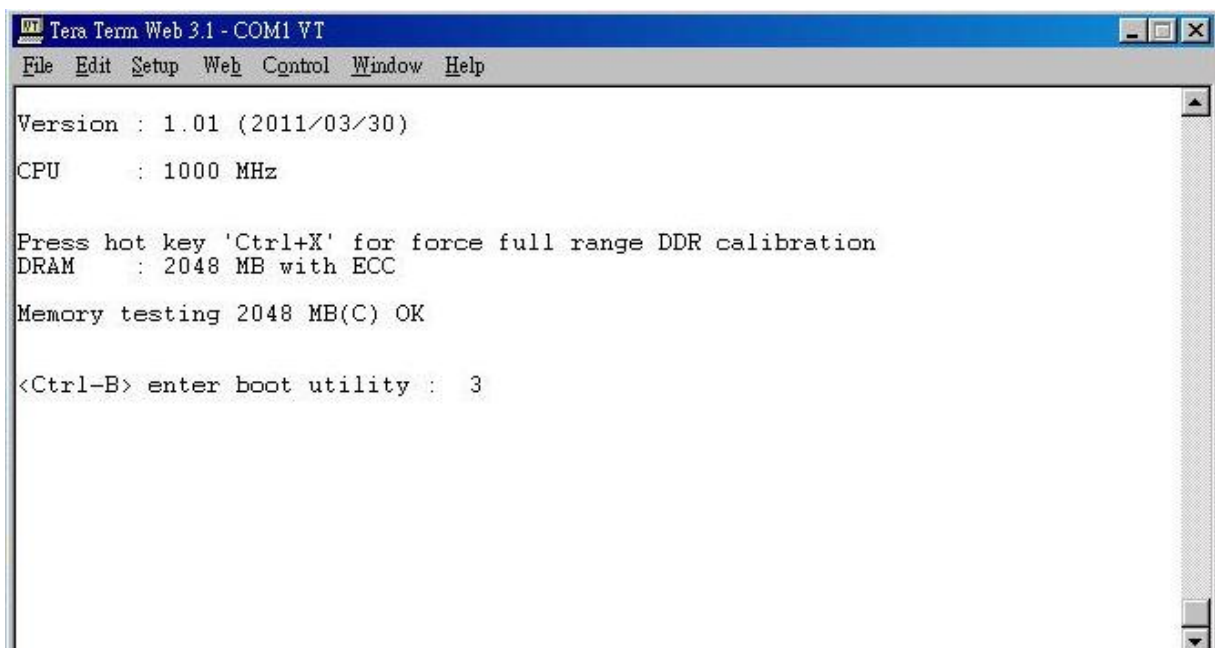
- B. Setting the IP address (10.10.4.85) of LAN of the computer, run tftp utility and select the directory where firmware/boot code file is.



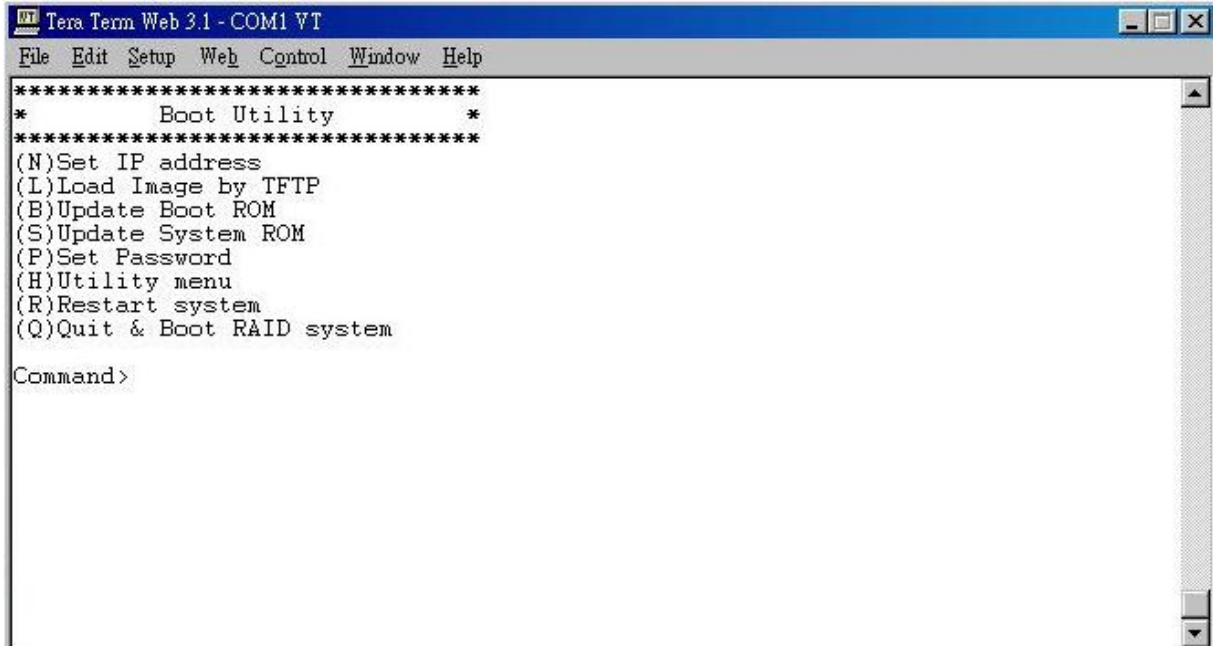
- C. In the computer, run and configure terminal utility as below:

- Baud rate: 115200
- Data bits: 8
- Parity: None
- Stop bits: 1
- Flow Control: None

- D. Power on RAID system and start memory test procedure in the terminal console.



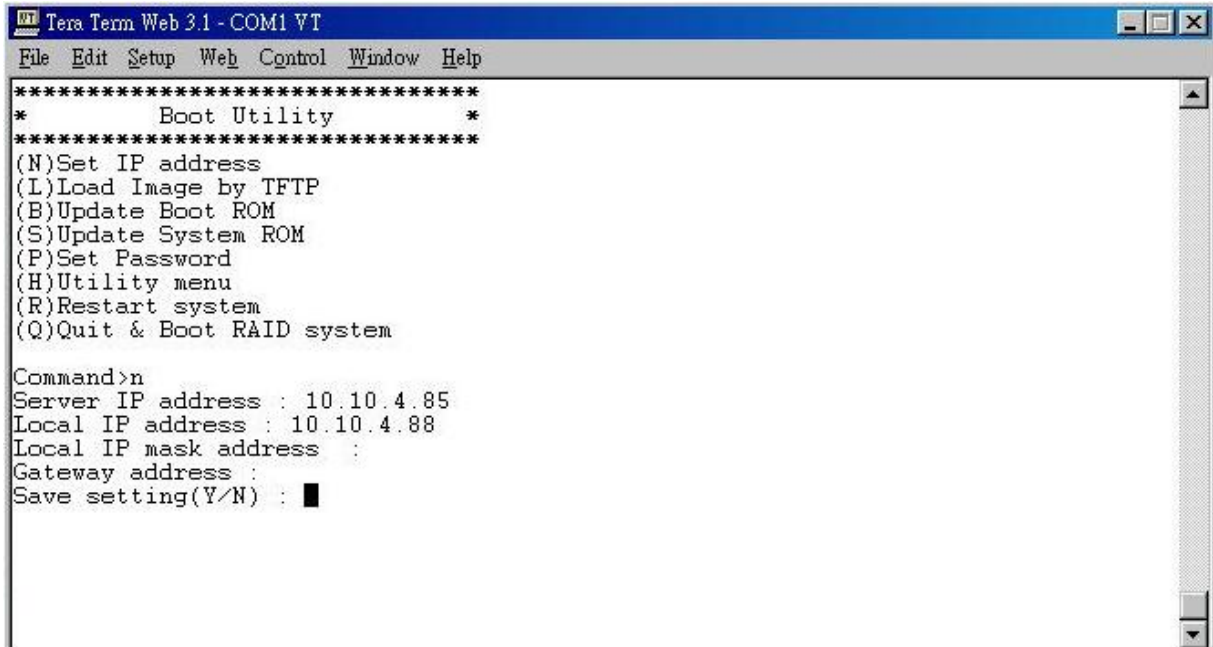
E. Press <Ctrl>+ after memory test to get into Boot Utility menu.



F. Press <N> to set IP address for the terminal console server and RAID system

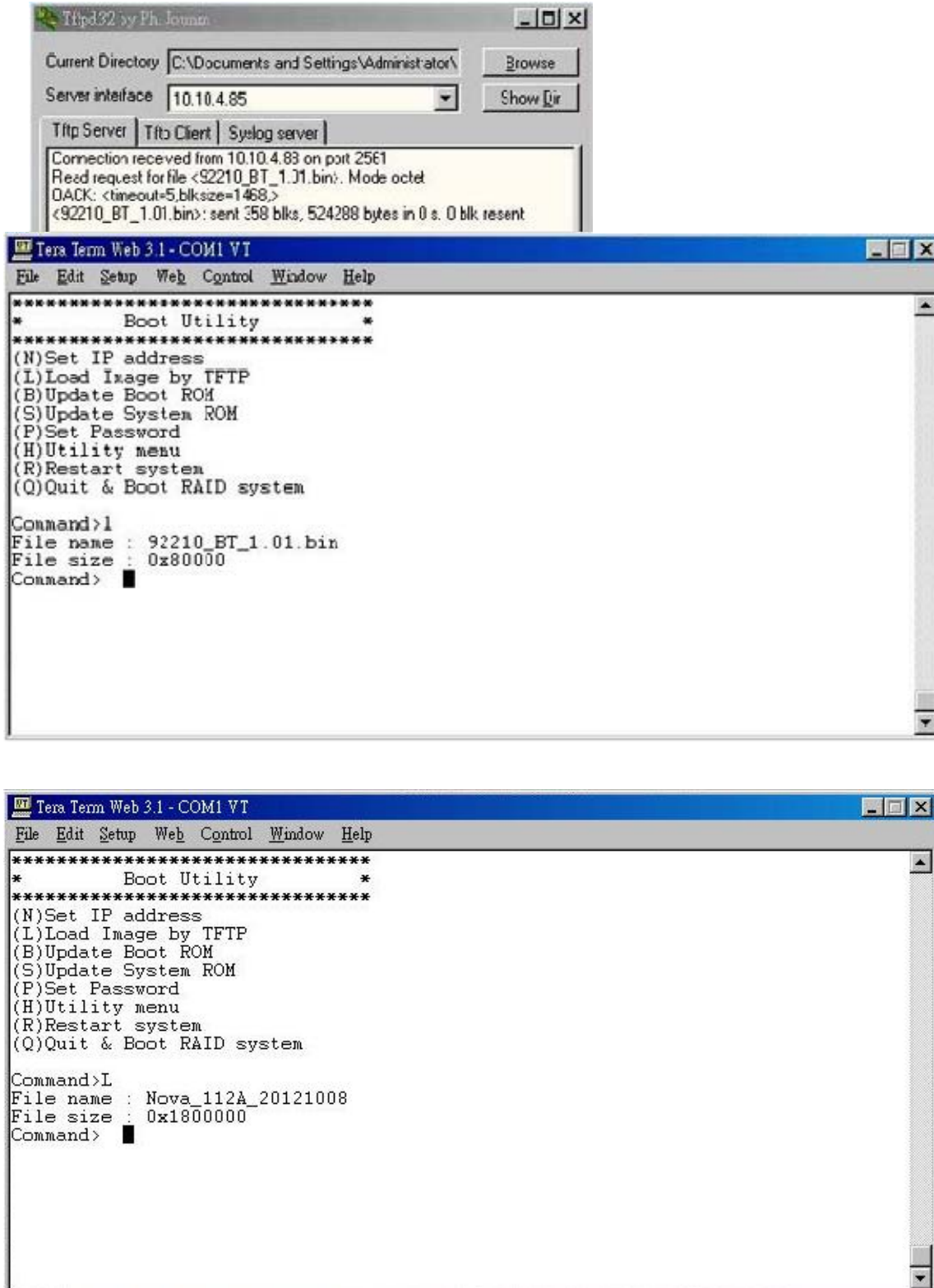
Local IP address (RAID system): 10.10.4.88

Server IP address (Computer): 10.10.4.85



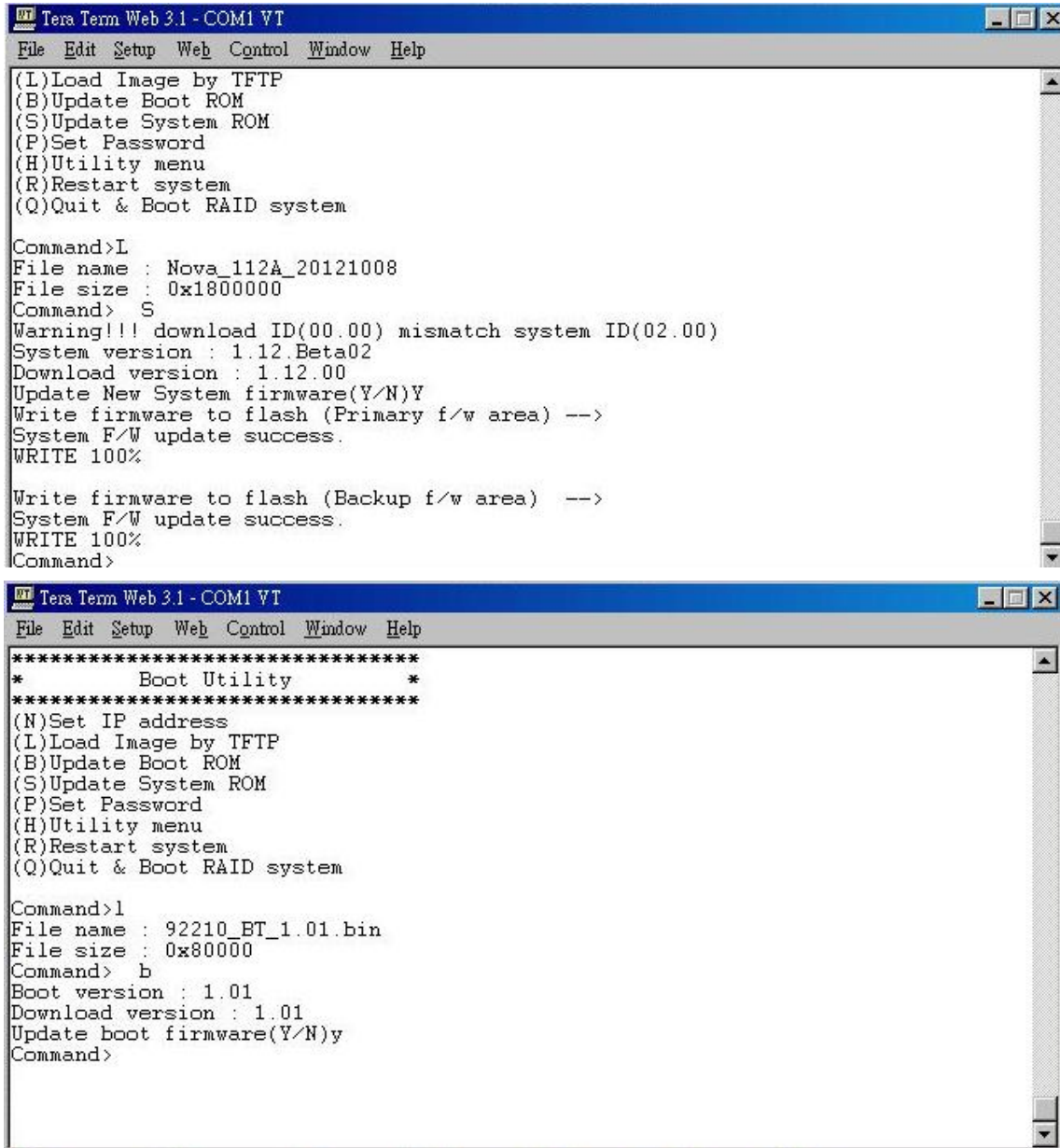
- G. Press <L> and then input the firmware or boot code file name (e.g. Nova_112A_20121008 or 92210_BT_1.01.bin), then press Enter to start firmware uploading to RAID system.

Note: Make sure the firmware/boot code file name is correct.



H. Press <S> and <Y> to start upgrading new firmware (press and <Y> to upgrading new boot code) to RAID system.

* **Note:** There are dual Flash ROMs, a main ROM and a backup ROM on the RAID system to avoid firmware upgrade fail or single ROM defect.



```

Tera Term Web 3.1 - COM1 VT
File Edit Setup Web Control Window Help
(L)Load Image by TFTP
(B)Update Boot ROM
(S)Update System ROM
(P)Set Password
(H)Utility menu
(R)Restart system
(Q)Quit & Boot RAID system

Command>L
File name : Nova_112A_20121008
File size : 0x1800000
Command> S
Warning!!! download ID(00.00) mismatch system ID(02.00)
System version : 1.12.Beta02
Download version : 1.12.00
Update New System firmware(Y/N)Y
Write firmware to flash (Primary f/w area) -->
System F/W update success.
WRITE 100%

Write firmware to flash (Backup f/w area) -->
System F/W update success.
WRITE 100%
Command>

Tera Term Web 3.1 - COM1 VT
File Edit Setup Web Control Window Help
*****
*          Boot Utility          *
*****
(N)Set IP address
(L)Load Image by TFTP
(B)Update Boot ROM
(S)Update System ROM
(P)Set Password
(H)Utility menu
(R)Restart system
(Q)Quit & Boot RAID system

Command>l
File name : 92210_BT_1.01.bin
File size : 0x80000
Command> b
Boot version : 1.01
Download version : 1.01
Update boot firmware(Y/N)y
Command>
    
```

I. Once the firmware or boot code updated done, press <R> to reboot RAID system to make it effective.

* **Note:** There are dual Flash ROMs, a main ROM and a backup ROM on the RAID system to avoid firmware upgrade fail or single ROM defect.

* **Note:** To update firmware/boot code from Boot Utility on redundant system like Nova 20R, Nova 30R, Nova 40R, Nova 26R, Nova 36R, Nova 46R, please startup with one controller only and upgrade firmware/boot code for one controller first, then startup with the other controller and upgrade firmware/boot code for the other controller..