

The SOP of updating XJ3000-4603S SAS JBOD Firmware and MFG through Console Port in Windows OS

Date: 10-April-14

● Purpose

To ensure the process of updating the XJ3000-4603S SAS JBOD Firmware and MFG were successful and all updates are done in same manner.

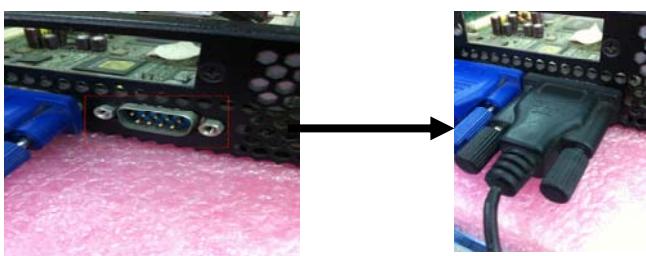
● Tools prepare:

- 1) Console cable (You can find the cable in Ass'y bag of 4U60 JBOD)



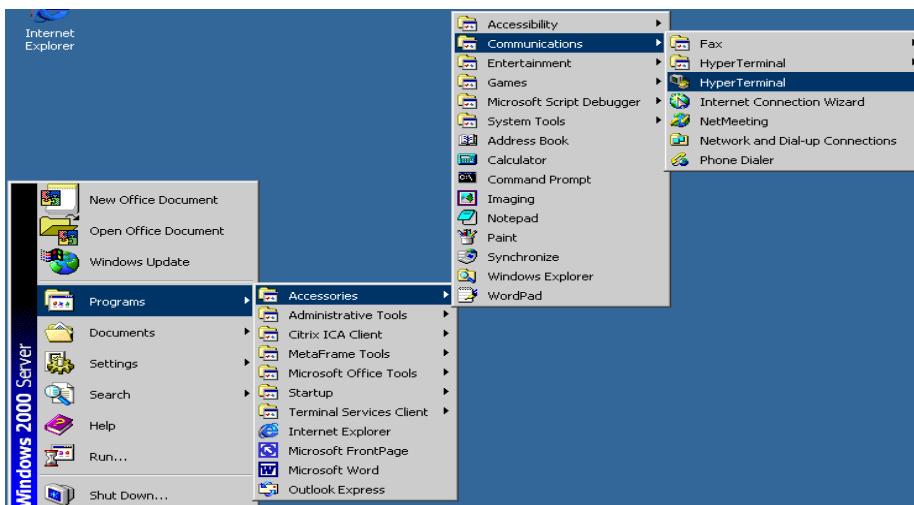
- 2) Please have a OS with HyperTerminal program.
- 3) Please connect the console cable into the computer's RS232 port and JBOD's COM.

* The COM port icon in JBOD is 1C, 2C and 3C. The 1C is HUB, 2C is left edge, 3C is right edge port .



● Update Procedure

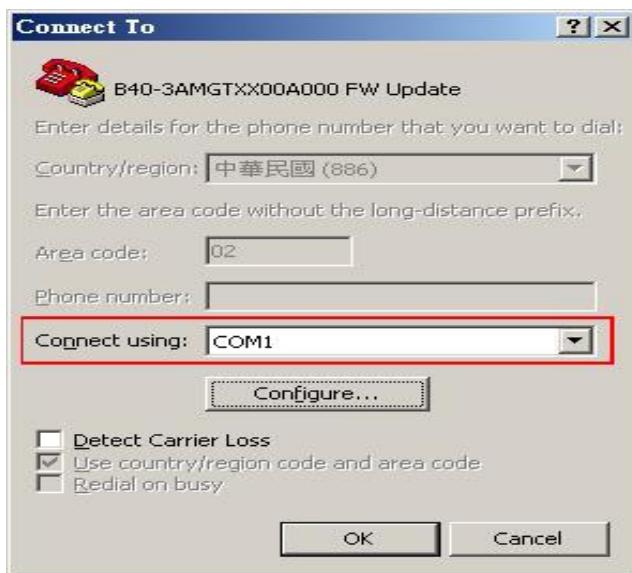
- 1) Power on your computer and running the HyperTerminal program.



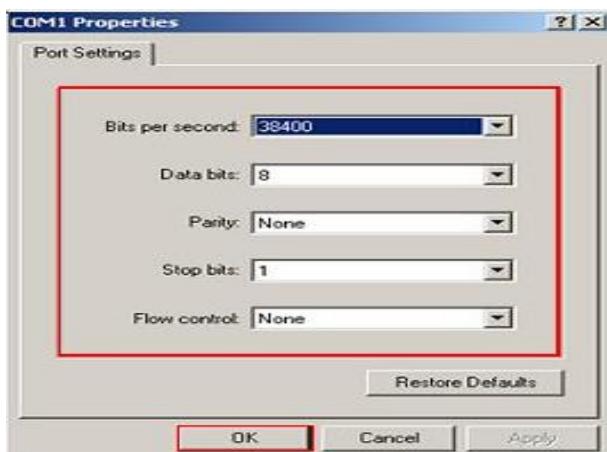
2) Assign the name to the session.(The name can be any words.)



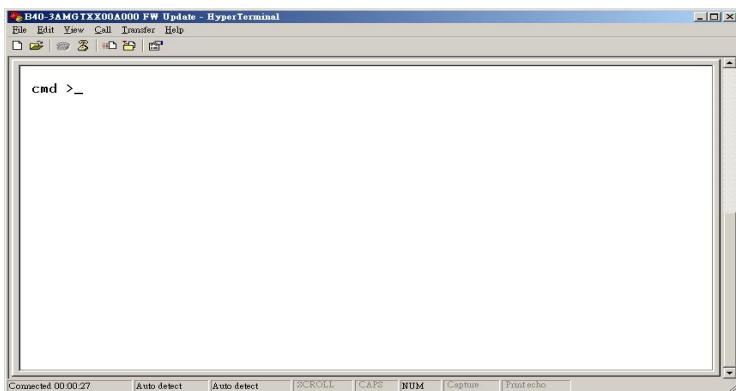
3) Please select “COM1” in connect using item and then press “configure”.



4) Please set a) Bits per second to “38400”, b) Data bits to “8”, c) Parity to “None”, d) Stop Bits to “1”, e) Flow Control to “None” and then press OK.



- 5) After steps 4, you will enter hyper terminal screen and then please press "Enter" key, the screen will appear the cmd line



- 6) There are 3 COM ports have to update. Please update the FW/MFG from right to left in sequence

7) Please insert JBOD COM port jack in 1C of JBOD to update HUB FW and MFG.

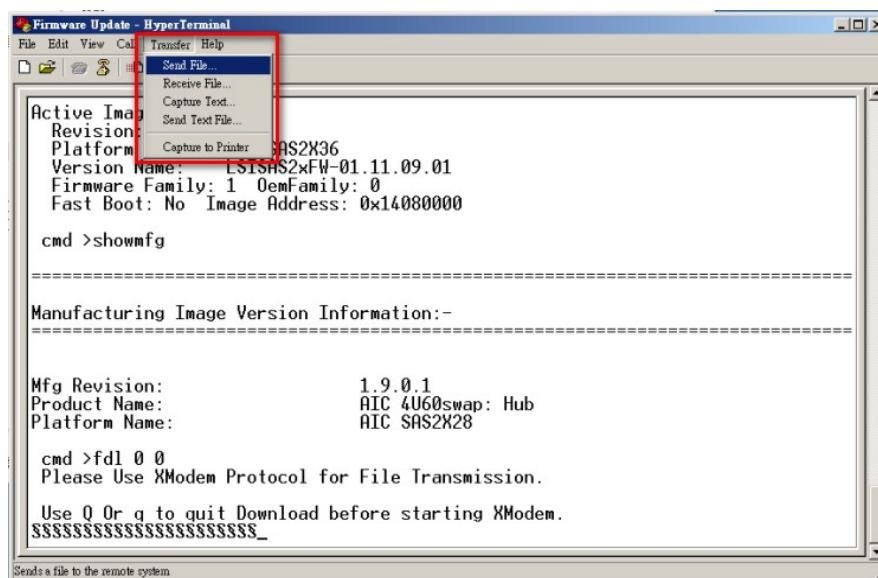
The HUB FW file name is [fw2A9_v1.11.9.53hub](#).

The HUB MFG file name is [mfg2A9.0_4U60swap_SE_Hub_v1.9.0.51](#)

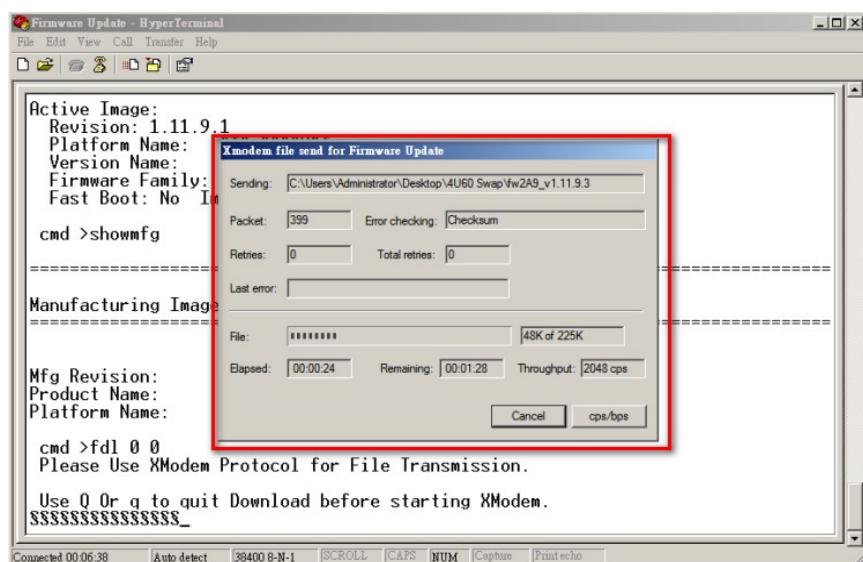
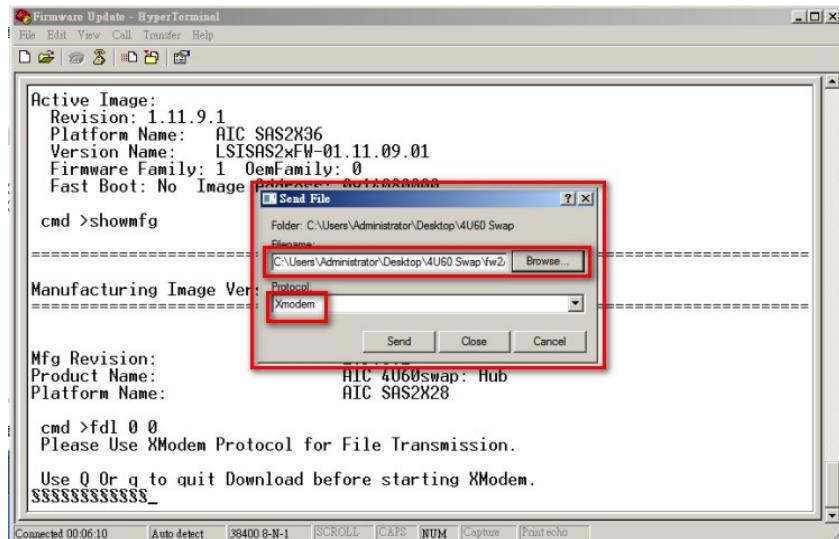
- 8) Please input "fdl 0 0" in com line to update the firmware,



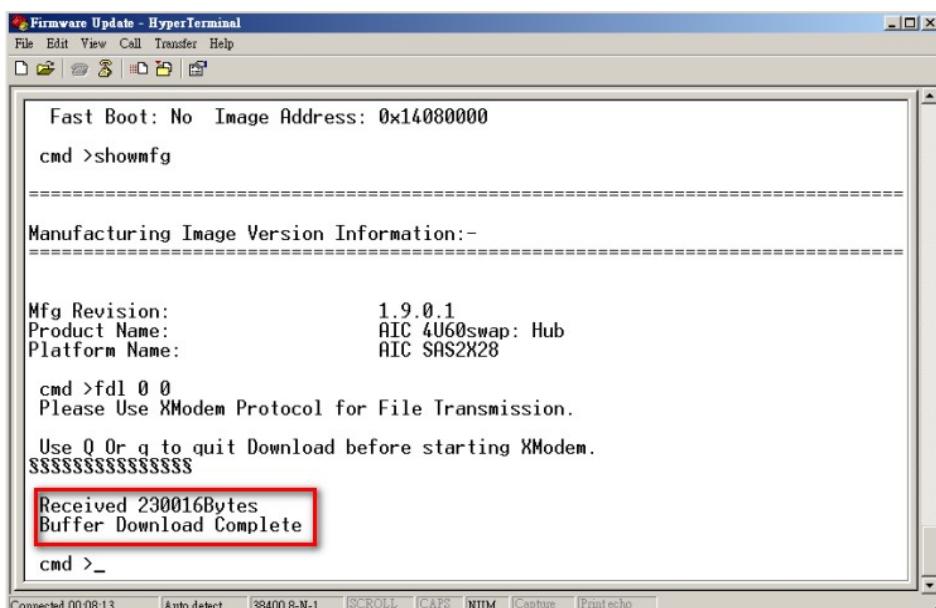
- 9) Please go to the Transfer menu, and then select "Send file"



- 10) Select the Firmware file “fw2A9_v1.11.9.53hub” and set the Protocol type is “Xmodem” and then press the “Send” button



- 11) After finished the FW updated, the screen will show “ Buffer Download Complete”.



- 12) Please input "fdl 83 0" in com line to update the MFG.
- 13) Please go to the Transfer menu, and then select "Send file"
- 14) Select the Firmware file "[mfg2A9.0_4U60swap_SE_Hub_v1.9.0.51](#)" and set the Protocol type is "Xmodem" and then press the "Send" button
- 15) After finished the MFG updated, the screen will show " Buffer Download Complete".

Firmware Update - HyperTerminal

Mfg Revision: 1.9.0.1
Product Name: AIC 4U60swap: Hub
Platform Name: AIC SAS2X28

```
cmd >fdl 0 0
Please Use XModem Protocol for File Transmission.

Use Q Or q to quit Download before starting XModem.
$$$$$$$$$$$$$$$$$$

Received 230016Bytes
Buffer Download Complete

cmd >fdl 83 0
Please Use XModem Protocol for File Transmission.

Use Q Or q to quit Download before starting XModem.
$$$$$$

Received 14848Bytes
Buffer Download Complete

cmd >
```

Connected 00:09:39 Auto detect 38400 8-N-1 SCROLL CAPS NUM Capture Print echo

- 16) **Please change JOBD COM port jack from 1C to 2C to update Left Edge FW and MFG.**

The Left Edge FW file name is [fw2A10_v1.11.10.53left](#) .

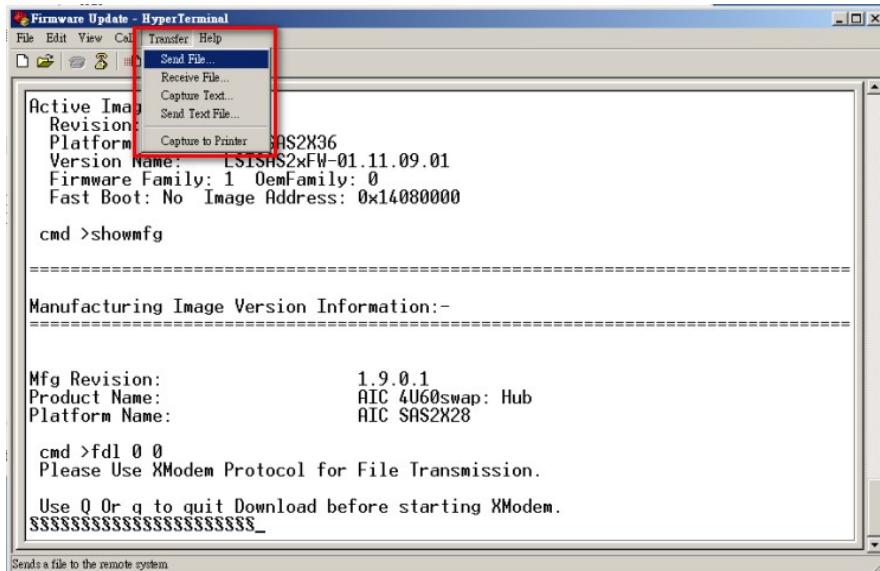
The Left Edge MFG file name is [mfg2A10.0_4U60swap_SE_LeftEdge_v1.10.0.53](#)

- 17) Please input "fdl 0 0" in com line to update the firmware,

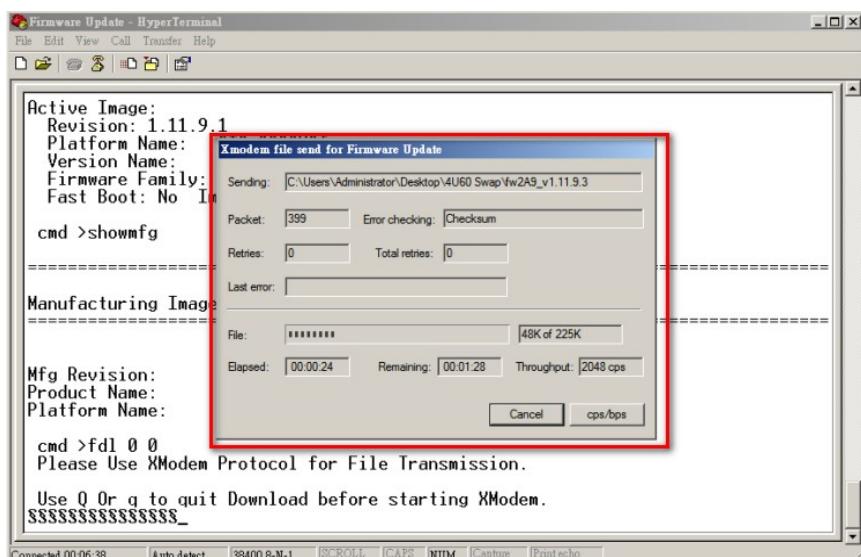
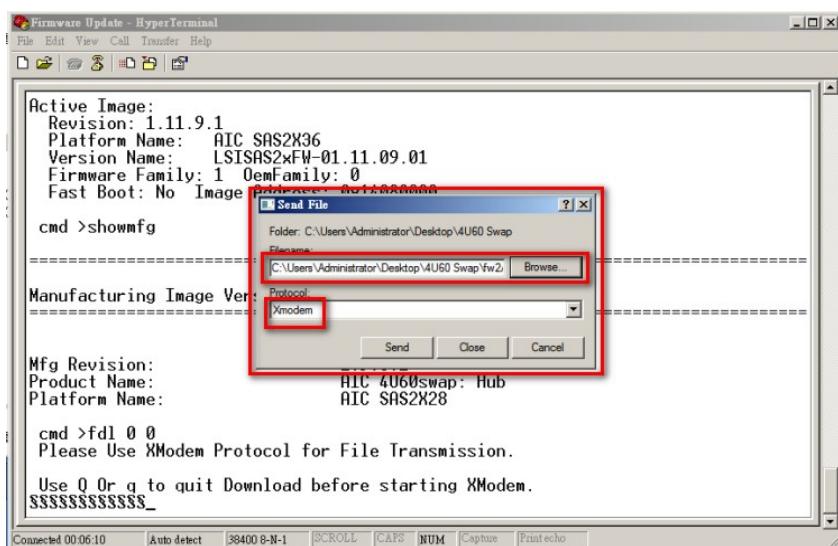
```
Platform Name: H1U SHS2X28
cmd >fdl 0 0
```

Connected 00:03:22 Auto detect 38400 8-N-1 SCROLL CAPS NUM Capture Print echo

18) Please go to the Transfer menu, and then select “Send file”



19) Select the Firmware file “fw2A10_v1.11.10.53left“ and set the Protocol type is “Xmodem” and then press the “Send” button



20) After finished the FW updated, the screen will show “ Buffer Download Complete”.

Firmware Update - HyperTerminal

```
Fast Boot: No Image Address: 0x14080000
cmd >showmfg
=====
Manufacturing Image Version Information:-
=====
Mfg Revision: 1.9.0.1
Product Name: AIC 4U60swap: Hub
Platform Name: AIC SAS2X28

cmd >fdl 0 0
Please Use XModem Protocol for File Transmission.

Use Q Or q to quit Download before starting XModem.
$$$$$$$$$$$$$$$$$$

Received 230016Bytes
Buffer Download Complete

cmd >_
```

Connected 00:08:13 Auto detect 38400 8-N-1 SCROLL CAPS NUM Capture Print echo

21) Please input “fdl 83 0 ” in com line to update the MFG.

22) Please go to the Transfer menu, and then select “Send file”

23) Select the Firmware file “[mfg2A10.0_4U60swap_SE_LeftEdge_v1.10.0.53](#)” and set the Protocol type is “**Xmodem**” and then press the “Send” button

24) After finished the MFG updated, the screen will show “ Buffer Download Complete”.

Firmware Update - HyperTerminal

```
Mfg Revision: 1.9.0.1
Product Name: AIC 4U60swap: Hub
Platform Name: AIC SAS2X28

cmd >fdl 0 0
Please Use XModem Protocol for File Transmission.

Use Q Or q to quit Download before starting XModem.
$$$$$$$$$$$$$$$$$$

Received 230016Bytes
Buffer Download Complete

cmd >fdl 83 0
Please Use XModem Protocol for File Transmission.

Use Q Or q to quit Download before starting XModem.
$$$$$$$$$$

Received 14848Bytes
Buffer Download Complete

cmd >
```

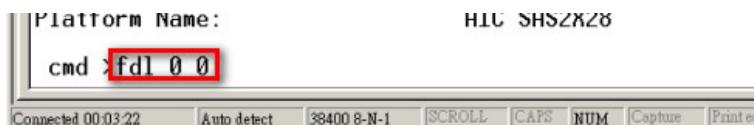
Connected 00:09:39 Auto detect 38400 8-N-1 SCROLL CAPS NUM Capture Print echo

25) Please change JOBD COM port jack from 2C to 3C to update Right Edge FW and MFG.

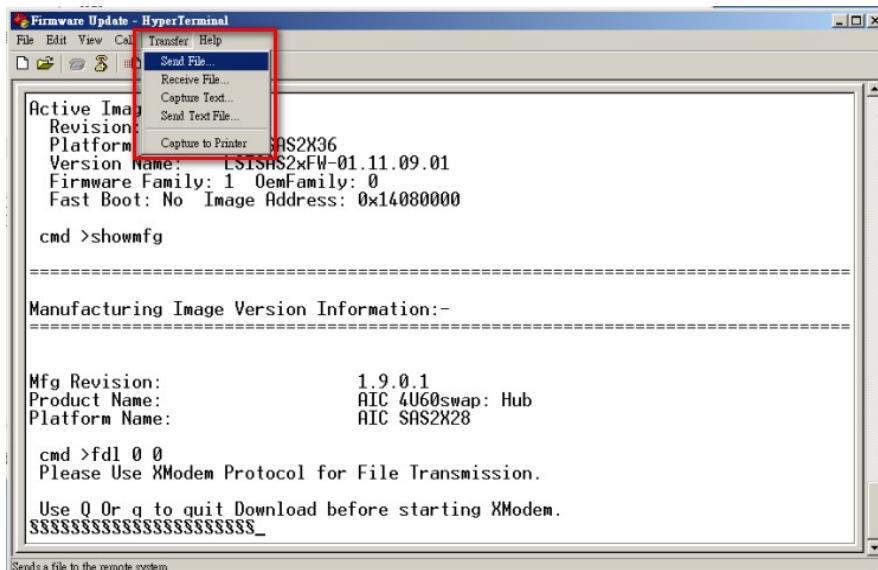
The Right Edge FW file name is fw2A10_v1.11.10.53right .

The Right Edge MFG file name is mfg2A10.1_4U60swap_SE_RightEdge_v1.10.1.53.

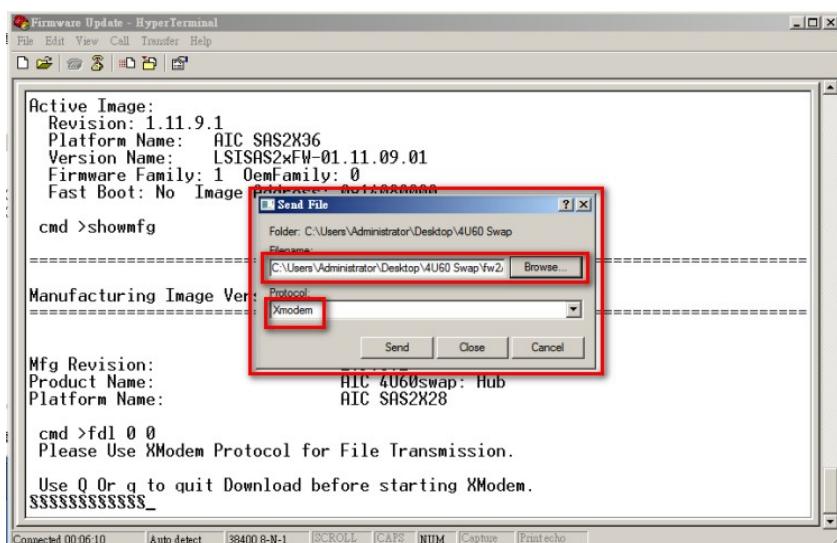
26) Please input “fdl 0 0” in com line to update the firmware,

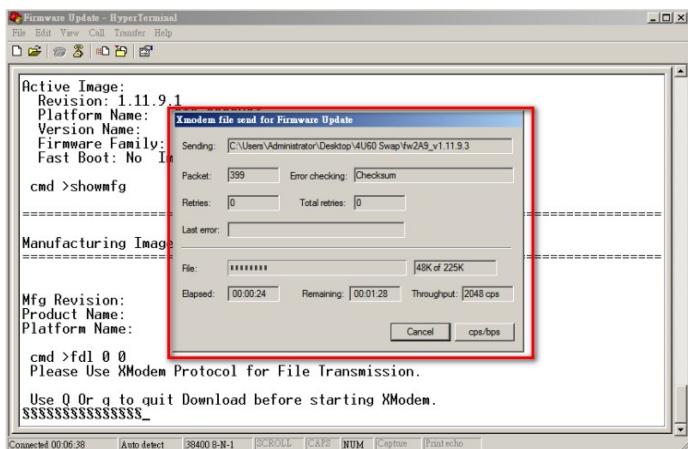


27) Please go to the Transfer menu, and then select “Send file”

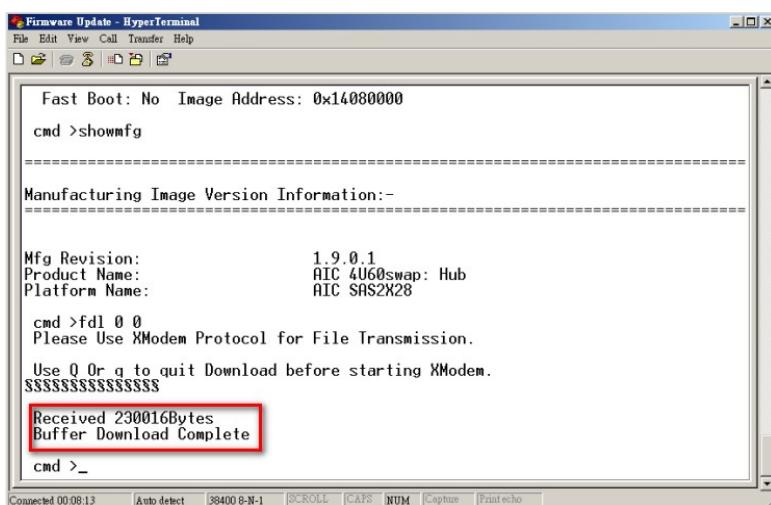


28) Select the Firmware file “fw2A10_v1.11.10.53right ” and set the Protocol type is “Xmodem” and then press the “Send” button





29) After finished the FW updated, the screen will show “ Buffer Download Complete”.

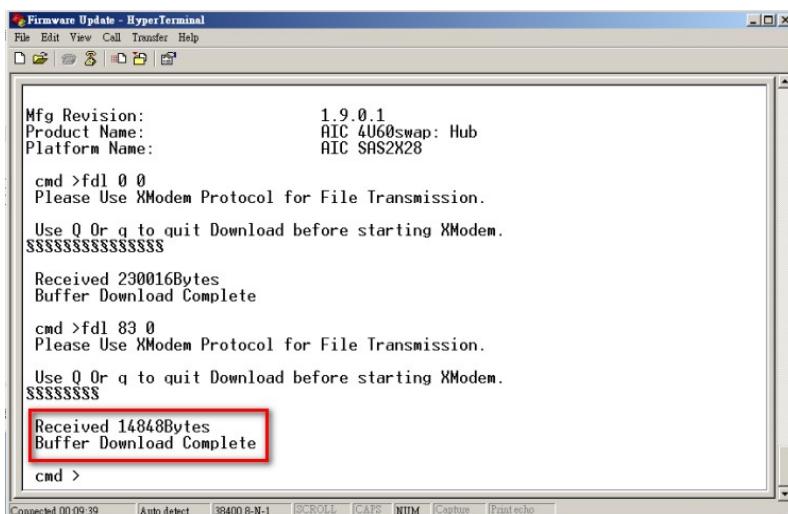


30) Please input “fdl 83 0 ” in com line to update the MFG.

31) Please go to the Transfer menu, and then select “Send file”

32) Select the Firmware file “[mfg2A10.1_4U60swap_SE_RightEdge_v1.10.1.53](#)” and set the Protocol type is “**Xmodem**” and then press the “Send” button

33) After finished the MFG updated, the screen will show “ Buffer Download Complete”.



34) After finished all FW/MFG update, please press the “power button” to reset the JBOD.

The SOP of updating XJ3000-4603S SAS JBOD Firmware and MFG through Console Port in Linux OS

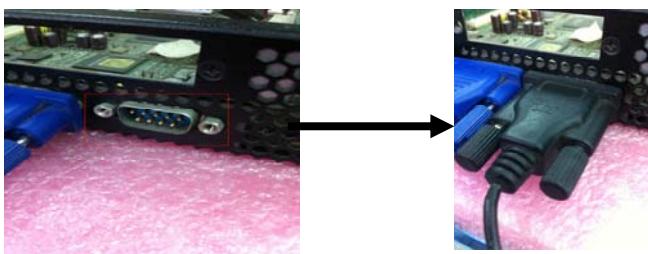
● Tools prepare:

- 1) Console cable (You can find the cable in Ass'y bag of 4U60 JBOD)



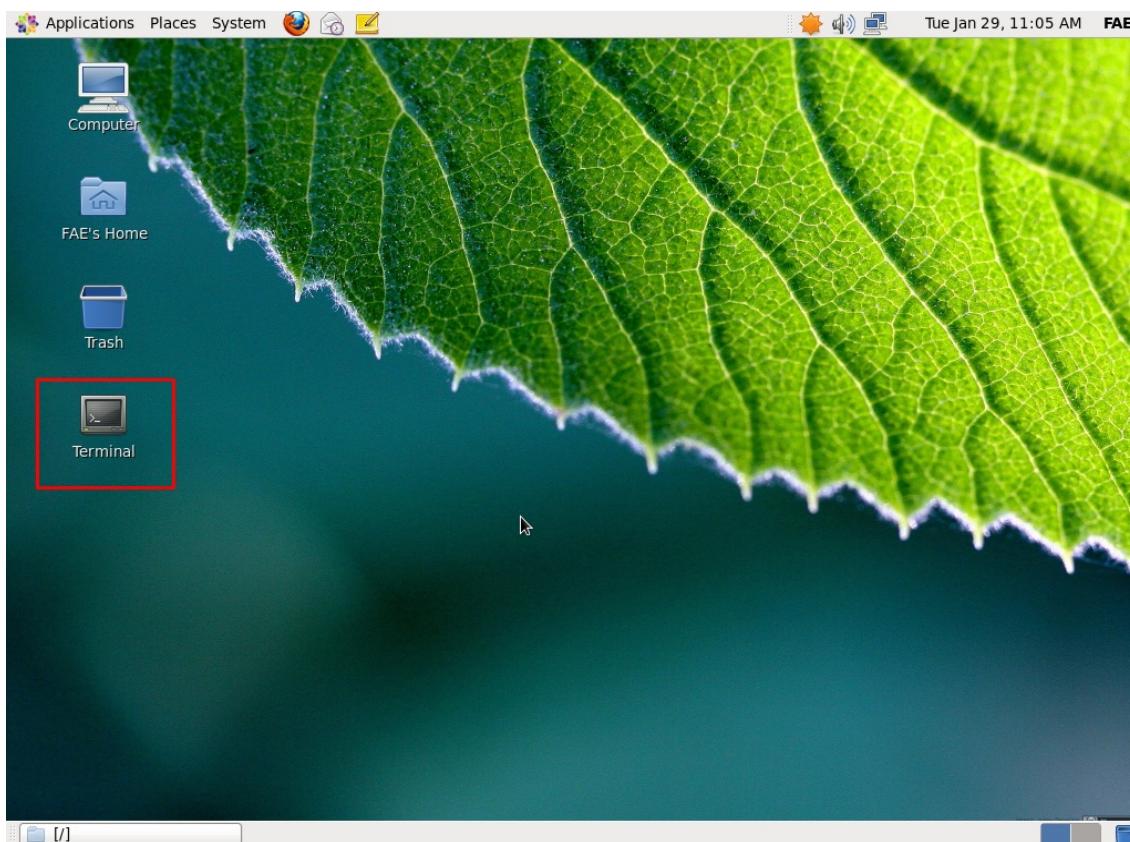
- 2) Please connect the console cable into the computer's RS232 port and JBOD's COM.

* The COM port icon in JBOD is 1C, 2C and 3C. The 1C is HUB, 2C is left edge, 3C is right edge port .

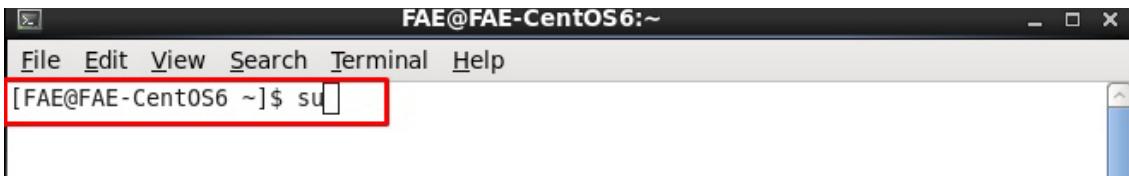


● Update Procedure

- 1) Power on your computer and running the Terminal program.



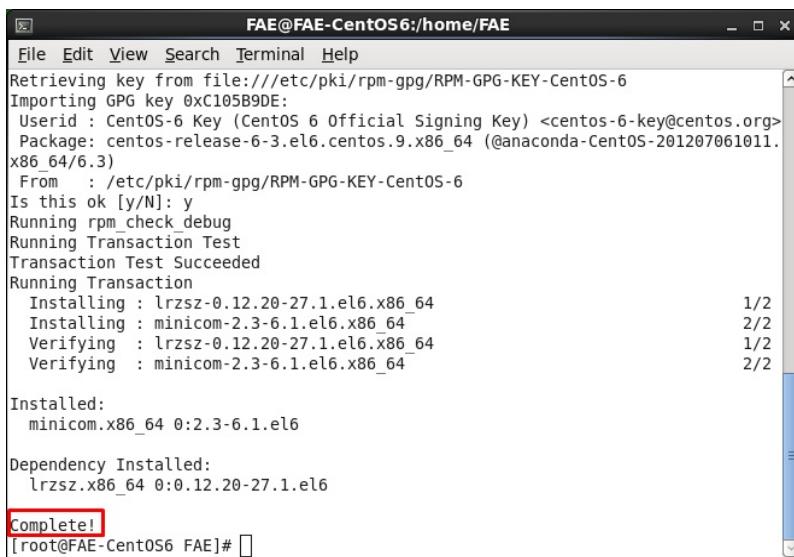
2) Login as "root", please enter **su** and key-in root password



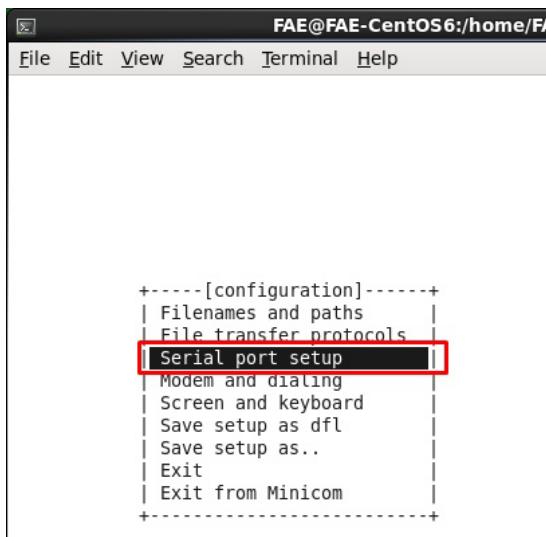
3) Please enter **yum install minicom** to install the console software.



3) After complete the installed, the screen will show as below



4) Please key in "**minicom -s**" to enter the configuration menu.



5) Please press **A**, then change the Serial Device to **/dev/ttyS0** and the press the enter.

```
+-----+-----[Comm Parameters]-----+
| A - Serial Device      : /dev/ttyS0 | A
| B - Lockfile Location   : /var/lock |
| C - Callin Program      : |
| D - Callout Program     : |
| E - Bps/Par/Bits        : 115200 8N1 |
| F - Hardware Flow Control: No |
| G - Software Flow Control: No |

Change which setting? 
```

6) Please press **E** to change the Bps/Par/Bits

a) Please press D and Q to set the 'Speed' to 38400、'Parity' to None、'Data' to 8、'Stopbits' to 1。

And then press enter.

```
+-----+-----[Comm Parameters]-----+
| A - Serial Del          : |
| B - Lockfile Loc        : Current: 38400 8N1 |
| C - Callin Pro           : Speed               Parity    Data
| D - Callout Pro          : A: <next>       L: None   S: 5
| E - Bps/Par/Bits         : B: <prev>       M: Even   T: 6
| F - Hardware Flo         : C: 9600        N: Odd    U: 7
| G - Software Flo         : D: 38400       O: Mark   V: 8
|                           E: 115200     P: Space
| Change which             : Stopbits
|                           | Screen a: W: 1   Q: 8-N-1
|                           | Save set: X: 2   R: 7-E-1
|                           | Save set
|                           | Exit
|                           | Exit fro| Choice, or <Enter> to exit? 
```

b) Please press **F** to set the "Hardware Flow Control " to No, then press enter.

```
+-----+
| A - Serial Device        : /dev/S0
| B - Lockfile Location    : /var/lock
| C - Callin Program       : |
| D - Callout Program      : |
| E - Bps/Par/Bits         : 38400 8N1
| F - Hardware Flow Control: No
| G - Software Flow Control: No

Change which setting? 
+-----+
| Screen and keyboard
| Save setup as dfl
| Save setup as..
| Exit
| Exit from Minicom
```

7) Please select **Save** setup as dfl and then exit.

8) Please insert JBOD COM port jack in 1C of JBOD to update HUB FW and MFG.

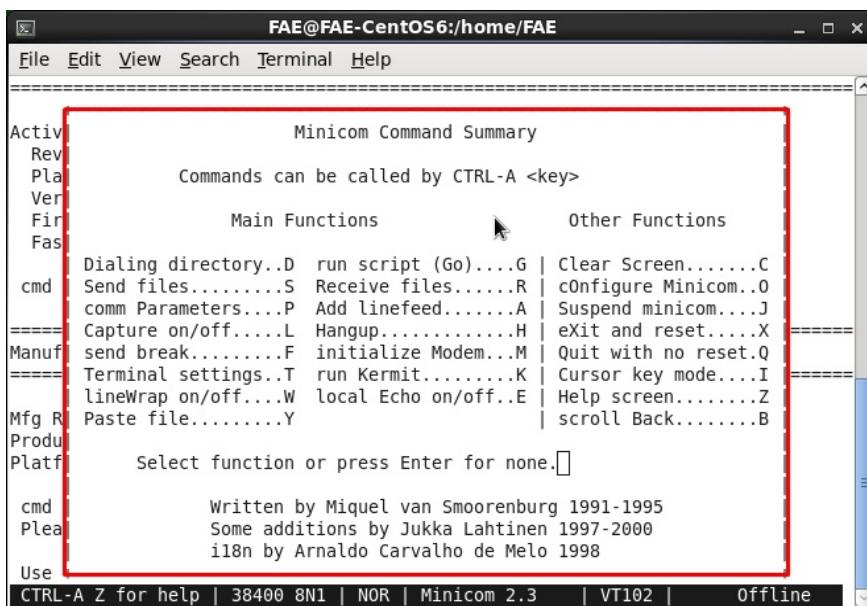
The HUB FW file name is **fw2A9_v1.11.9.53hub**.

The HUB MFG file name is **mfg2A9.0_4U60swap_SE_Hub_v1.9.0.51**

9) Please input “fdl 0 0” in com line to update the firmware,

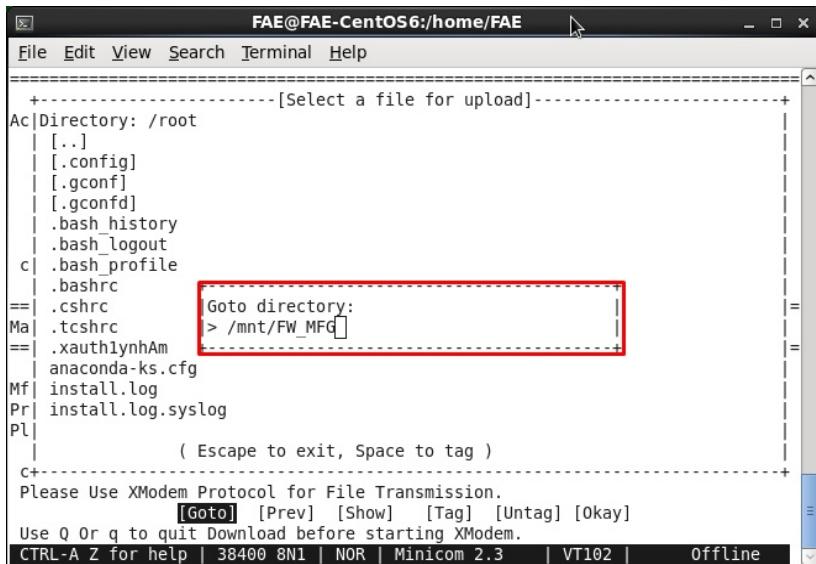


10) Please press **Ctrl + A** and then press “Z” to see the below menu.



11) Please press **S** to send Firmware, and select “xmodem” to update.

12) Please press “GOTO” to select FW file name “**fw2A9_v1.11.9.53hub**” and then press “Okay” to update FW



13) After finished the FW updated, the screen will show “Transfer Complete”.

```

fae@momo:/home/fae
File Edit View Search Terminal Help

cm
Invalid Command. Use help command for CLI Command Help.

cmd >
cmd >RE -----[xmodem upload - Press CTRL-C to quit]-----
Retry 0: NAK on sector
Retry 0: NAK on sector
Bytes Sent: 230016 BPS:3727
cmd >rev
===== Transfer complete =====
Firmware ===== READY: press any key to continue... =====

Active Image:
Revision: 1.11.9.1
Platform Name: AIC SAS2X36
Version Name: LSISAS2xFW-01.11.09.01
Firmware Family: 1 OEMFamily: 0
Fast Boot: No Image Address: 0x14080000

cmd >showmfg
=====
Manufacturing Image Version Information:-
=====

Mfg Revision: 1.9.0.1
Product Name: AIC 4U60swap: Hub
Platform Name: AIC SAS2X28

cmd >fdl 0 0
Please Use XModem Protocol for File Transmission.

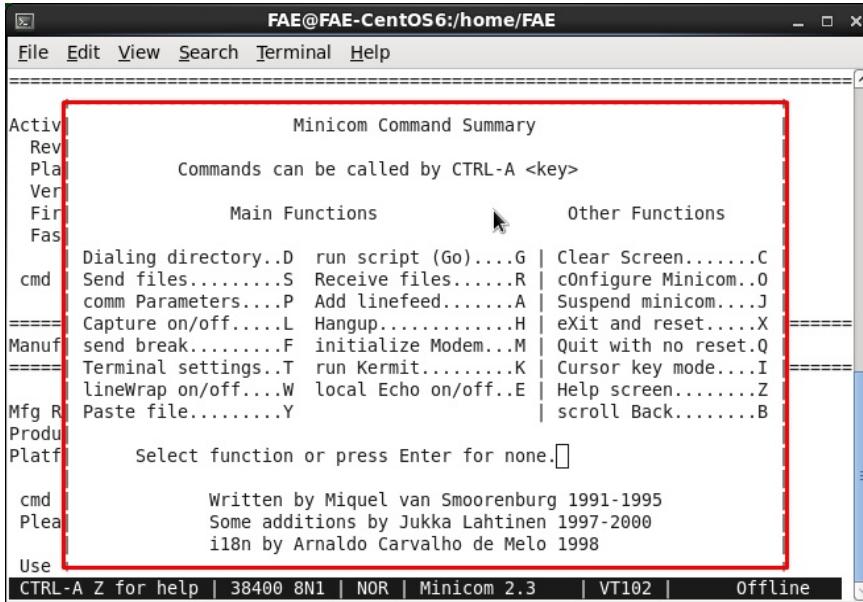
Use Q Or q to quit Download before starting XModem.

CTRL-A Z for help | 38400 8N1 | NOR | Minicom 2.3 | VT102 | Offline

```

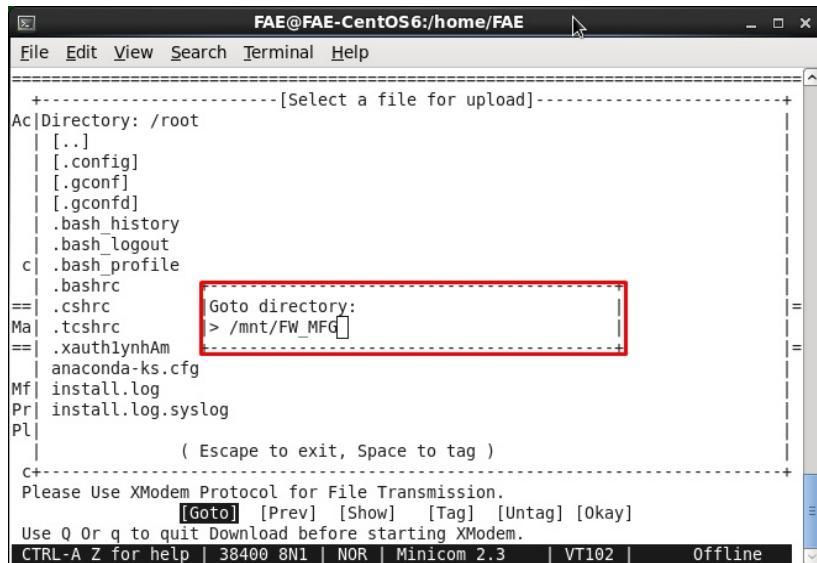
14) Please input “fdl 83 0 ” in com line to update the MFG.

15) Please press **Ctrl + A** and then press “Z” to see the below menu.

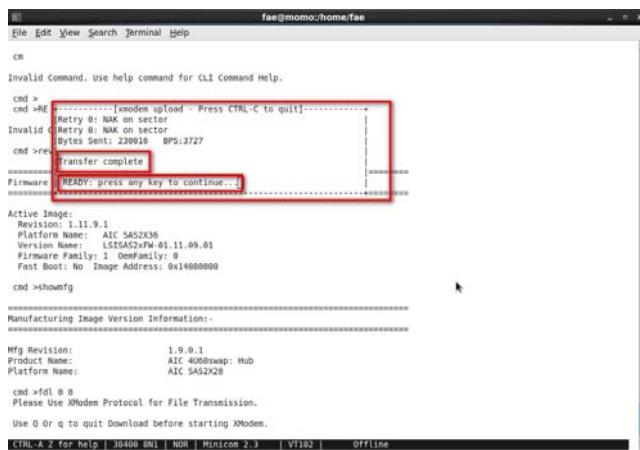


16) Please press **S** to send MFG, and select “xmodem” to update.

17) Please press “GOTO” to select MFG file **mfg2A9.0_4U60swap_SE_Hub_v1.9.0.51** and then press “Okay” to update MFG.



18) After finished the MFG updated, the screen will show “Transfer Complete”.



19) Please change JOBD COM port jack from 1C to 2C to update Left Edge FW and MFG.

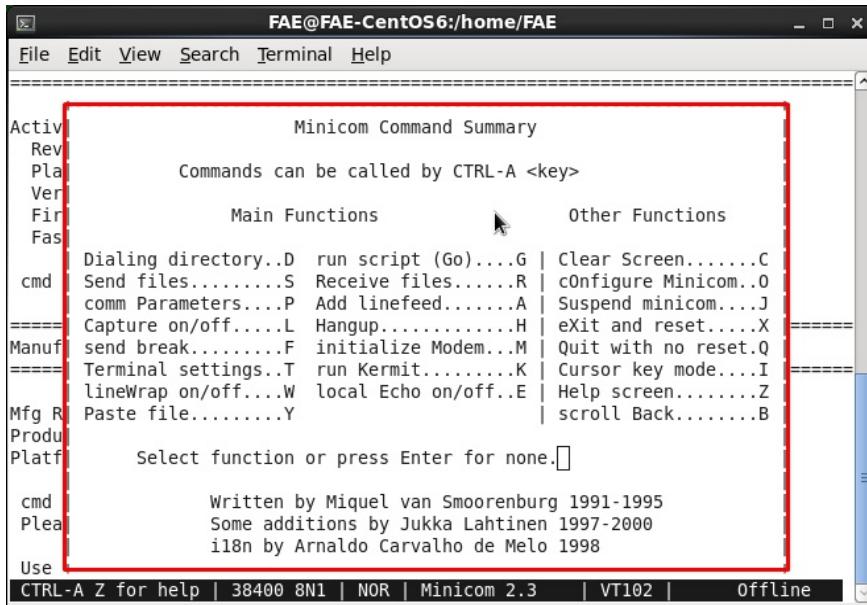
The Left Edge FW file name is **fw2A10_v1.11.10.53left**.

The Left Edge MFG file name is **mfg2A10.0_4U60swap_SE_LeftEdge_v1.10.0.53**

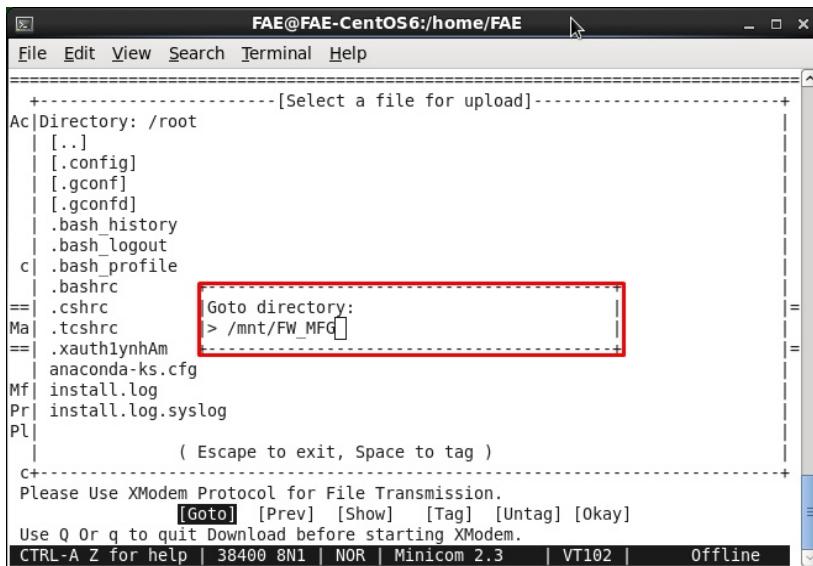
20) Please input “fdl 0 0” in com line to update the firmware,



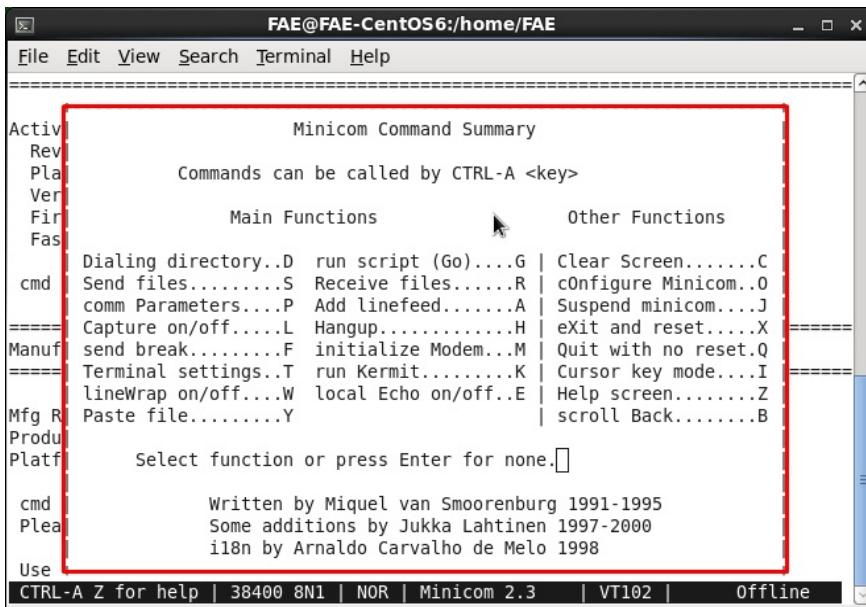
21) Please press **Ctrl + A** and then press "**Z**" to see the below menu.



- 22) Please press **S** to send Firmware, and select “xmodem” to update.
- 23) Please press “GOTO” to select FW file name “**fw2A10_v1.11.10.53left**” and then press “Okay” to update FW



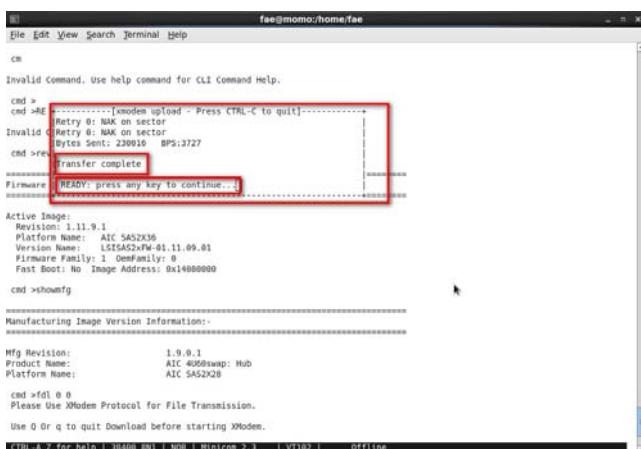
- 24) After finished the FW updated, the screen will show “Transfer Complete”.
- 25) Please input “fdl 83 0 ” in com line to update the MFG.
- 26) Please press **Ctrl + A** and then press “**Z**” to see the below menu.



- 27) Please press **S** to send MFG, and select “xmodem” to update.
- 28) Please press “GOTO” to select MFG file **mfg2A10.0_4U60swap_SE_LeftEdge_v1.10.0.53** and then press “Okay” to update MFG.



- 29) After finished the MFG updated, the screen will show “Transfer Complete”.

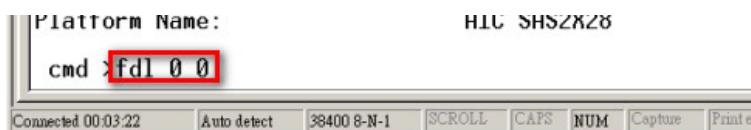


- 30) Please change JOBD COM port jack from 2C to 3C to update Right Edge FW and MFG.

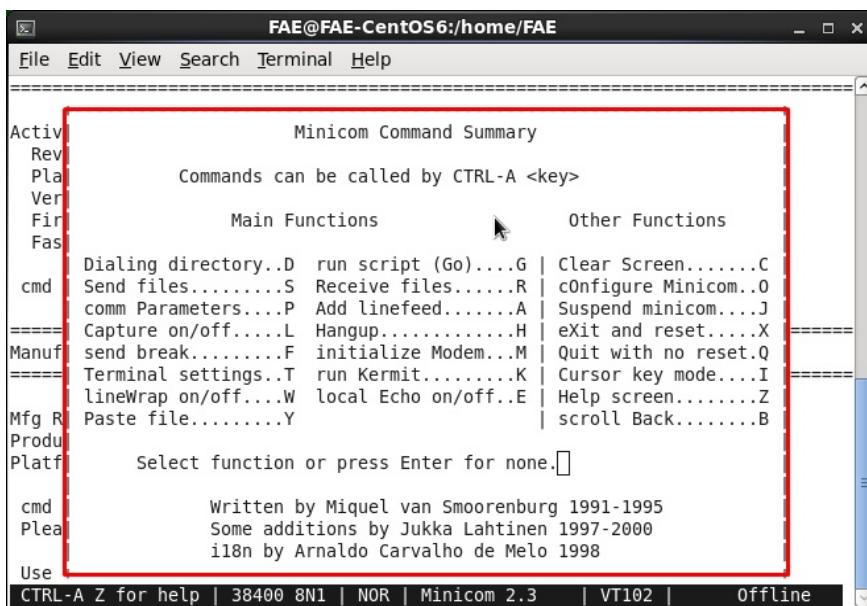
The Right Edge FW file name is fw2A10_v1.11.10.53right .

The Right Edge MFG file name is mfg2A10.1_4U60swap_SE_RightEdge_v1.10.1.53.

- 31) Please input “fdl 0 0” in com line to update the firmware,

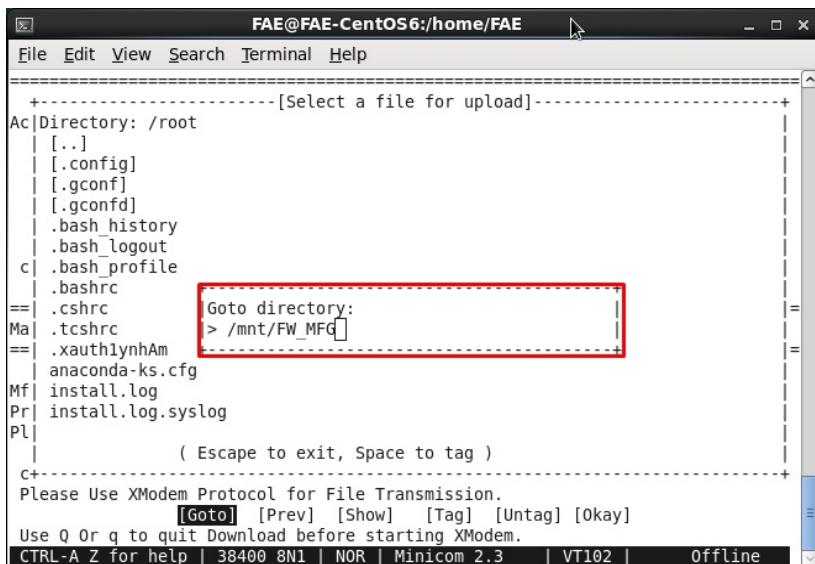


- 32) Please press **Ctrl + A** and then press “Z” to see the below menu.

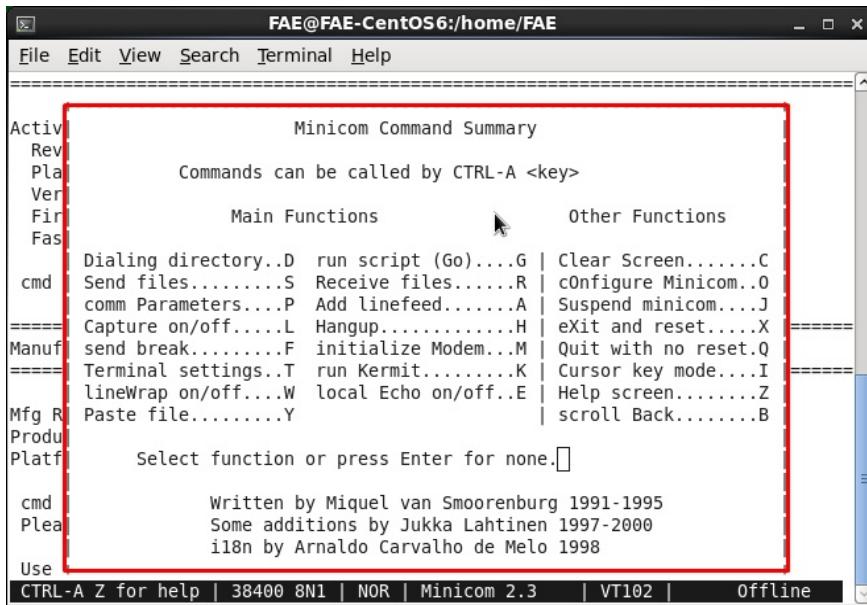


- 33) Please press **S** to send Firmware, and select “xmodem” to update.

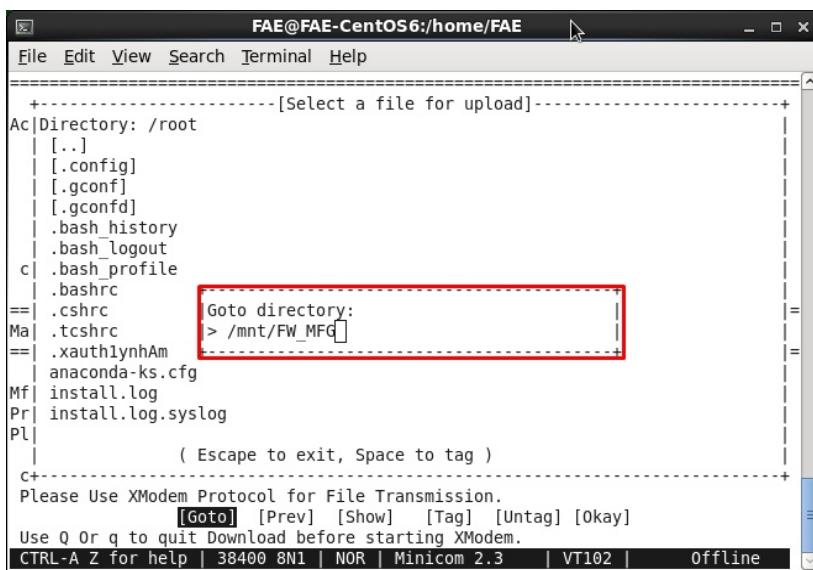
- 34) Please press “GOTO” to select FW file name “fw2A10_v1.11.10.53right” and then press “Okay” to update FW



- 35) After finished the FW updated, the screen will show “Transfer Complete”.
- 36) Please input “fdl 83 0 ” in com line to update the MFG.
- 37) Please press **Ctrl + A** and then press “Z” to see the below menu.



- 38) Please press **S** to send MFG, and select “xmodem” to update.
- 39) Please press “GOTO” to select MFG file **mfg2A10.1_4U60swap_SE_RightEdge_v1.10.1.53** and then press “Okay” to update MFG.



- 40) After finished the MFG updated, the screen will show “Transfer Complete”.
- 41) After finished all FW/MFG update, please press the “power button” to reset the JBOD.