



## **SBC6410 Download Wince6.0 Image Manual**

### **Catalogue**

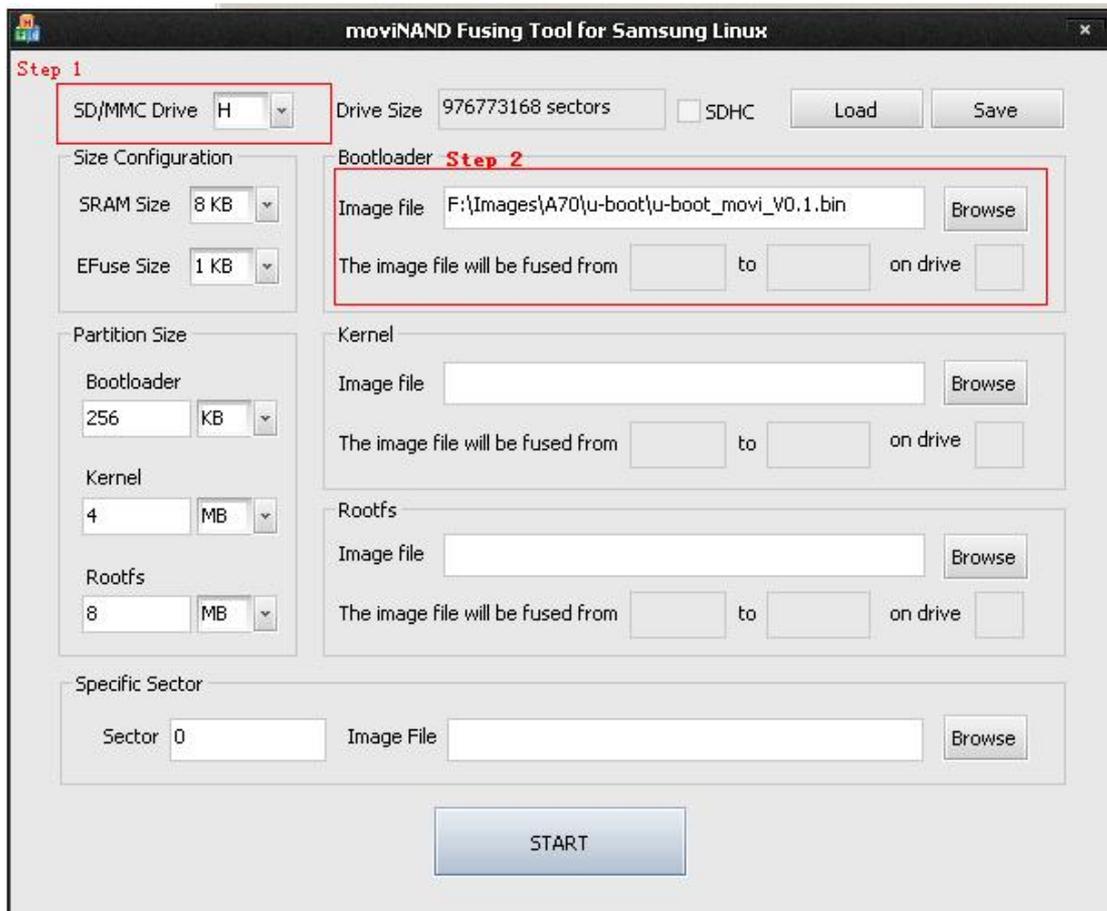
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## 1. Prepare

### (1) Do the SD booting card

The method to make the SD booting card was showed as follow:

- ① Insert the SD card to the PC, and run the tools: **moviNAND\_Fusing\_Tool.exe**, choose the SD card Driver in this tool. **MoviNAND\_Fusing\_Tool.exe** Position: **CD: \user Tools**
- ② Choose the **u-boot\_movi\_v0.1.bin** file in the Bootloader form of the tools; please refer to the follow picture. **u-boot\_movi\_v0.1.bin** Position : **CD:\Images\A70\u-boot\u-boot\_movi\_V0.1.bin**

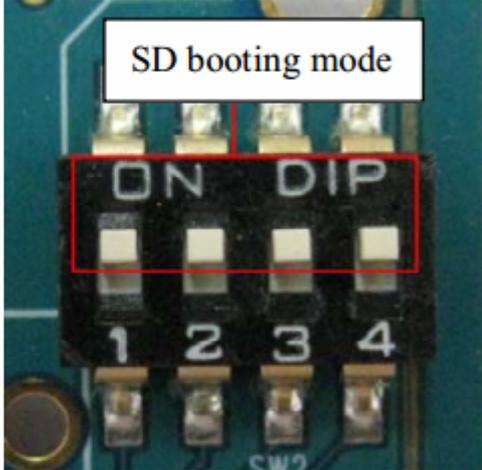


- ③ Then click the **START** button in the tools, If it show the message "Flash image done", it means it success in doing the SD booting card.

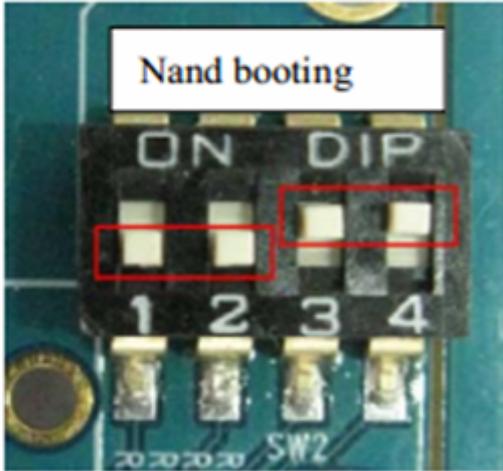
### (2) Booting mode set

Booting from SD card:



<b>Set the SW2 for the follow status</b>	SW2	1	2	3	4
	status	ON	ON	ON	ON
					

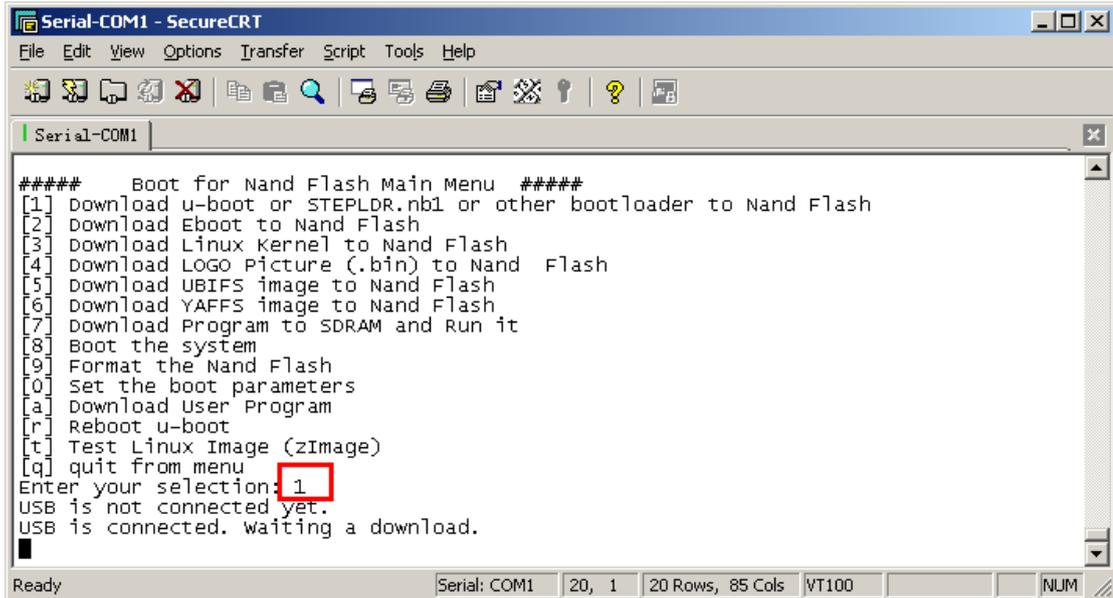
Booting from Nand flash:

<b>Set the SW2 for the follow status</b>	SW2	1	2	3	4
	status			ON	ON
					

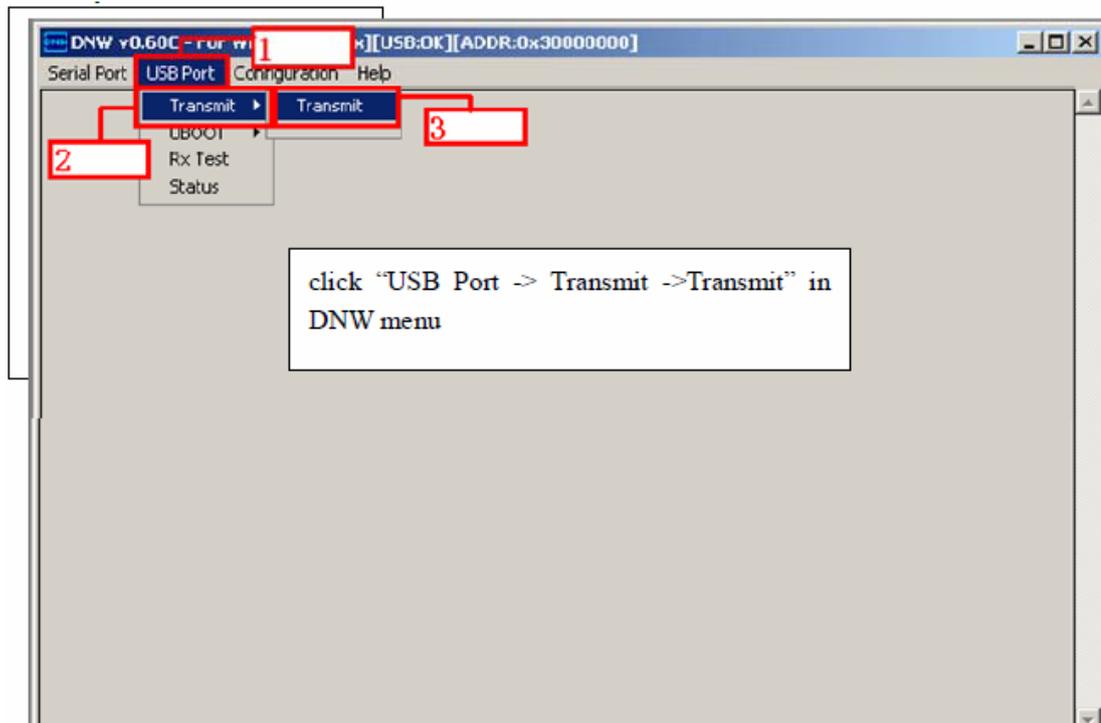
## 2. Burning Wince Bootloader

### (1) Burning Stepldr.nb1

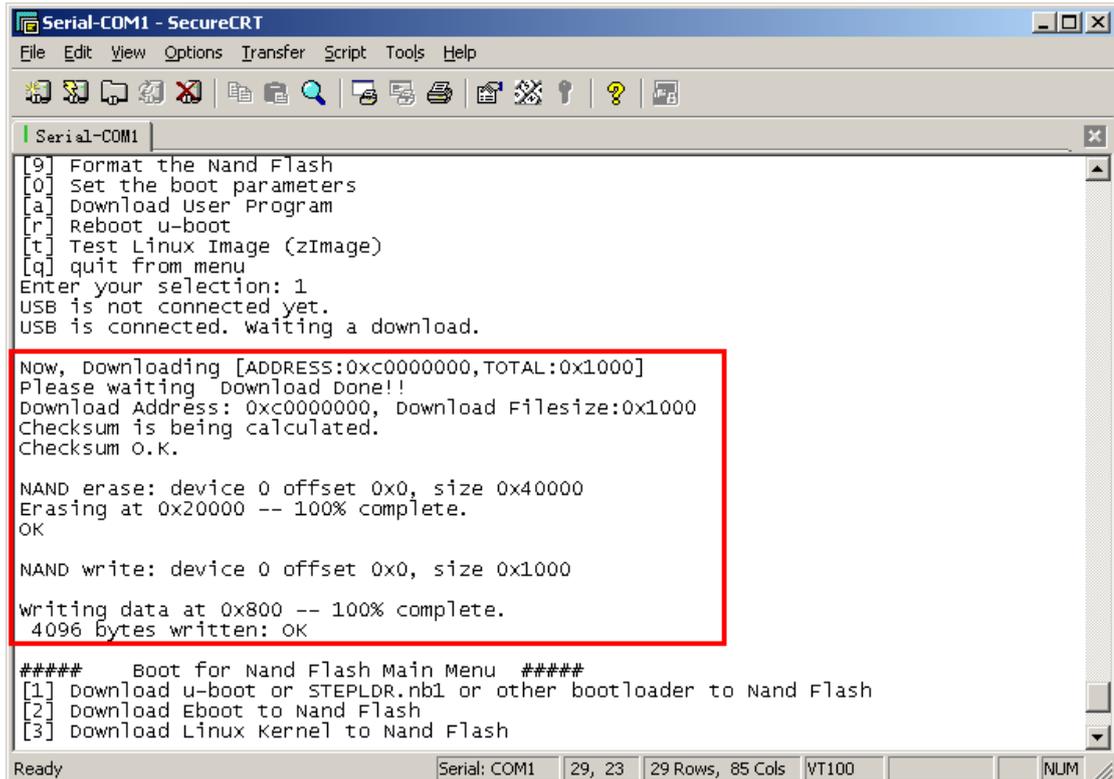
- ① Link the serial line and USB line from PC to the board.
- ② Insert the SD booting card into the board, set the board as SD card booting mode, then power on the board.
- ③ Input "1" in the terminal.



- ④ Run the DNW tools, click “**USB Port -> Transmit ->Transmit**” in DNW menu, then chooses the **stepldr.nb1** file.



- ⑤ If it shows as follow, it means user has finished the burning of Stepldr.



```

Serial-COM1 - SecureCRT
File Edit View Options Transfer Script Tools Help

Serial-COM1
[9] Format the Nand Flash
[0] Set the boot parameters
[a] Download User Program
[r] Reboot u-boot
[t] Test Linux Image (zImage)
[q] quit from menu
Enter your selection: 1
USB is not connected yet.
USB is connected. waiting a download.

Now, Downloading [ADDRESS:0xc0000000,TOTAL:0x1000]
Please waiting Download Done!!
Download Address: 0xc0000000, Download Filesize:0x1000
Checksum is being calculated.
Checksum O.K.

NAND erase: device 0 offset 0x0, size 0x40000
Erasing at 0x20000 -- 100% complete.
OK

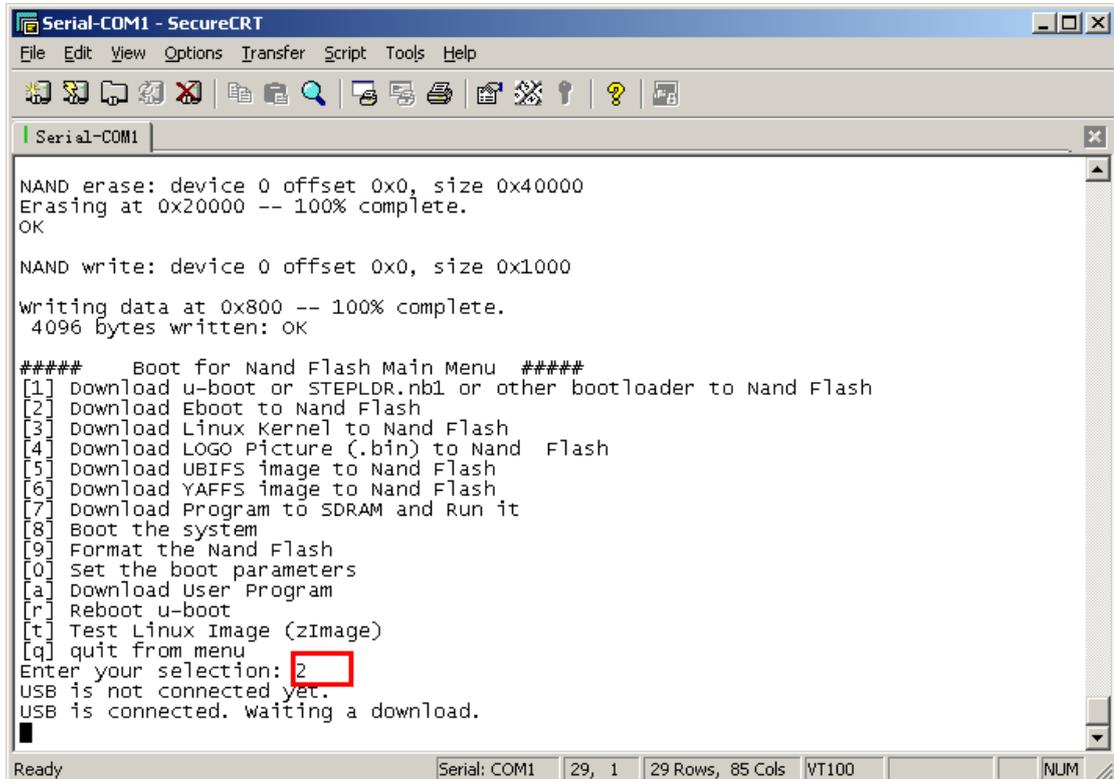
NAND write: device 0 offset 0x0, size 0x1000
Writing data at 0x800 -- 100% complete.
4096 bytes written: OK

##### Boot for Nand Flash Main Menu #####
[1] Download u-boot or STEPLDR.nb1 or other bootloader to Nand Flash
[2] Download Eboot to Nand Flash
[3] Download Linux Kernel to Nand Flash

Ready Serial: COM1 29, 23 29 Rows, 85 Cols VT100 NUM
  
```

## (2) Burning eboot.nb0

- ① Input "2" in the terminal.



```

Serial-COM1 - SecureCRT
File Edit View Options Transfer Script Tools Help

Serial-COM1

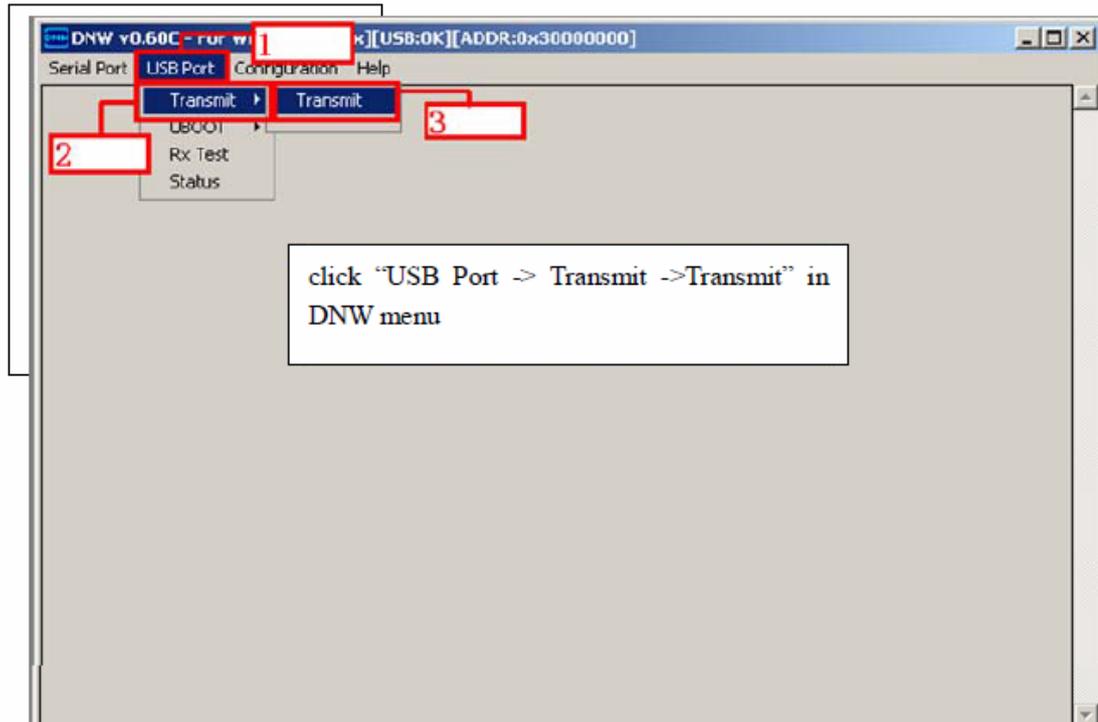
NAND erase: device 0 offset 0x0, size 0x40000
Erasing at 0x20000 -- 100% complete.
OK

NAND write: device 0 offset 0x0, size 0x1000
Writing data at 0x800 -- 100% complete.
4096 bytes written: OK

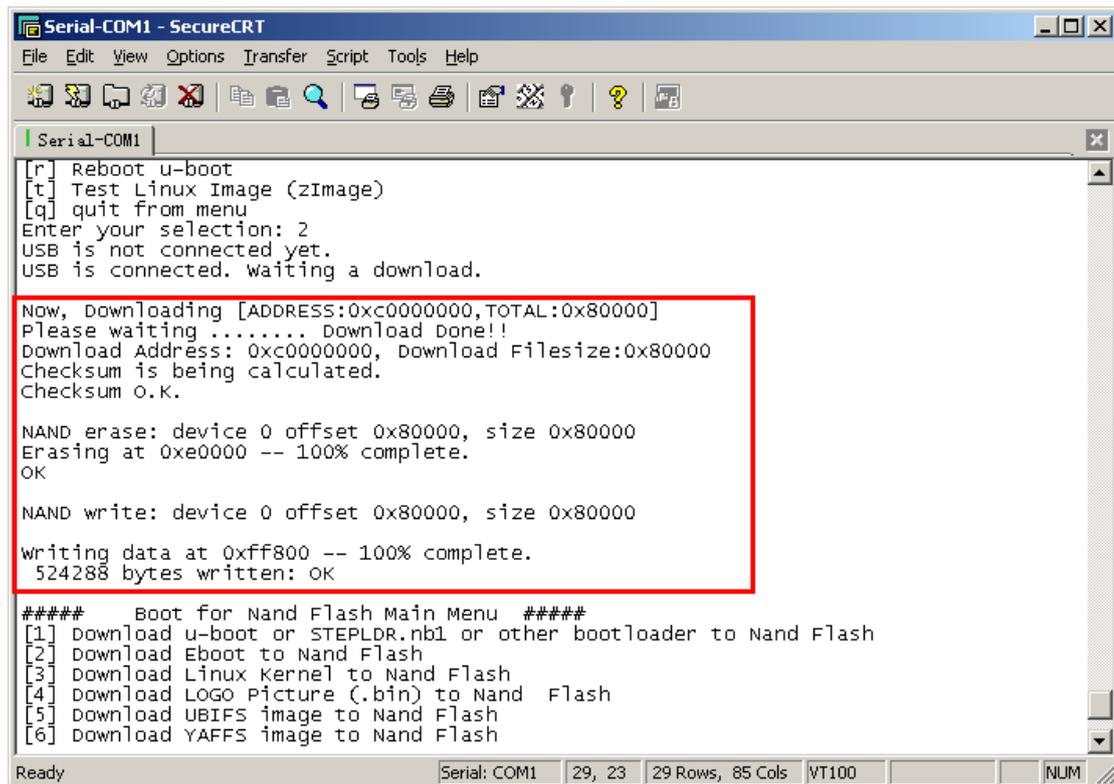
##### Boot for Nand Flash Main Menu #####
[1] Download u-boot or STEPLDR.nb1 or other bootloader to Nand Flash
[2] Download Eboot to Nand Flash
[3] Download Linux Kernel to Nand Flash
[4] Download LOGO Picture (.bin) to Nand Flash
[5] Download UBIFS image to Nand Flash
[6] Download YAFFS image to Nand Flash
[7] Download Program to SDRAM and Run it
[8] Boot the system
[9] Format the Nand Flash
[0] Set the boot parameters
[a] Download User Program
[r] Reboot u-boot
[t] Test Linux Image (zImage)
[q] quit from menu
Enter your selection: 2
USB is not connected yet.
USB is connected. waiting a download.

Ready Serial: COM1 29, 1 29 Rows, 85 Cols VT100 NUM
  
```

- ② Click "USB Port -> Transmit ->Transmit" in DNW menu, choose the eboot\_Q3.nb0 file.



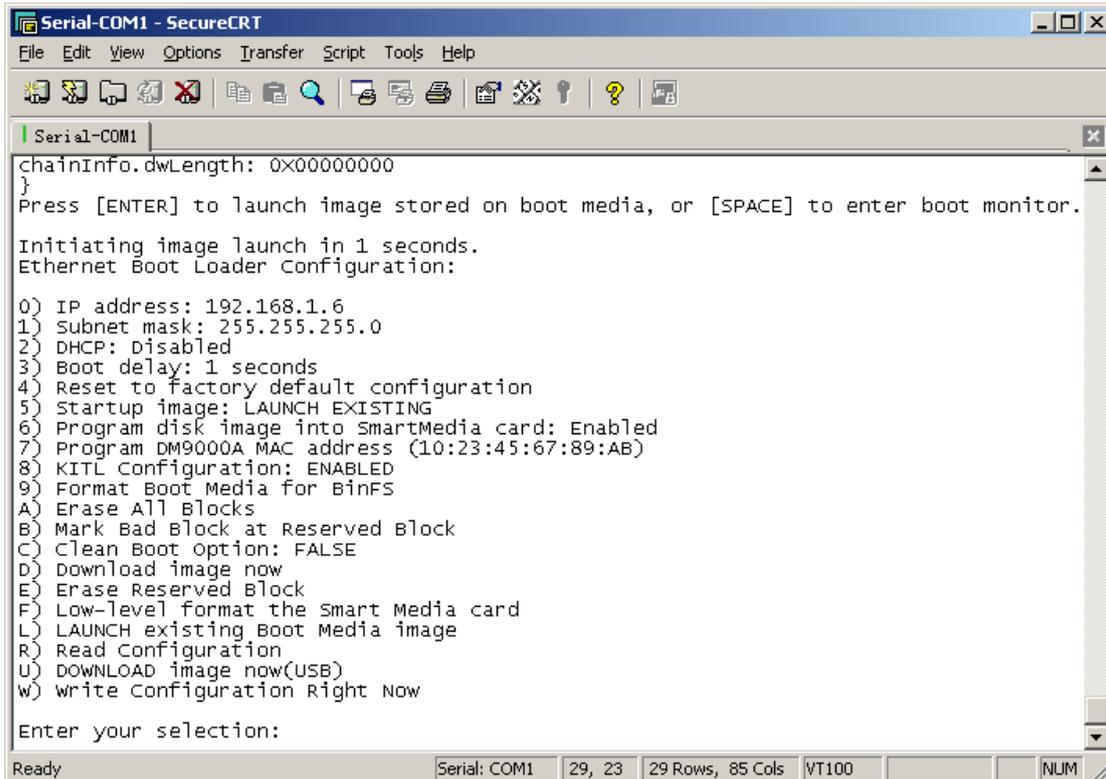
If it shows as follow, it means the EBOOT burning has finished.



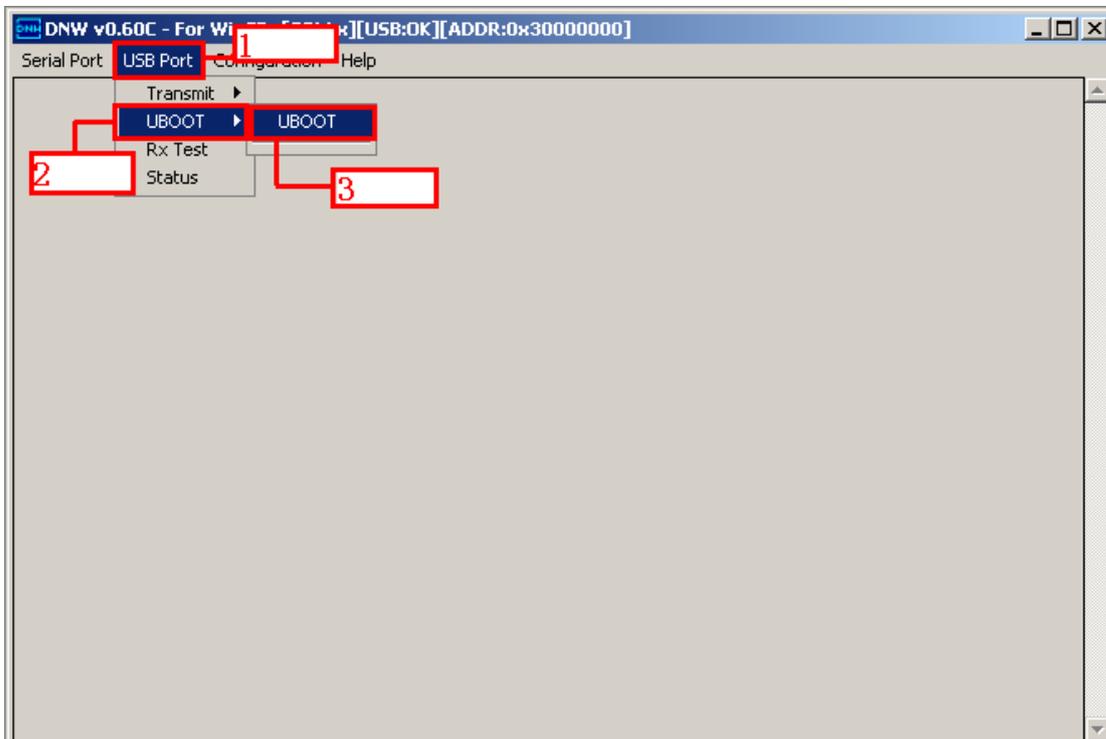
### 3. Burning NK.bin

Make sure you have burning the Wince Bootload successful before you want to burn the NK.bin.

- (1) Set the board as Nand flash booting mode, then power on the board and press the space button in PC to enter the eboot command mode.



- (2) Input “9” “b” to format the flash in the eboot command.
- (3) Input “u” in the eboot command.
- (4) Click “USB Port -> UBOOT->UBOOT” in DNW menu, and choose the **Nk\_Q43.bin** file.



- (5) If it shows as follow picture, it means burning successful.



```
Serial-COM1 - SecureCRT
File Edit View Options Transfer Script Tools Help
Serial-COM1
DEBUG: CreateSerialObject 3
-OALIntrRequestSysIntr(irq = 64, sysIntr = 36)
[MFC POWER] Power is up.
[MFC POWER] Power is down-OALIntrRequestSysIntr(irq = 26, sys
Intr = 37)
MFC Interrupt has been initialized.
[MFC IOCTL_POWER_CAPABILITIES] [MFC IOCTL_POWER_CAP
ABILITIES] leaving...
[MFC POWER] Power is up.
[MFC POWER] Power is down-OALIntrRequest
SysIntr(irq = 18, sysIntr = 38)
[DISPDRV] S3C6410Disp:Close URBprobar thread
[DISPDRV] S3C6410Disp::S3C6410Disp()
-OALIntrRequestSysIntr(irq = 21, sysIntr = 39)
20 SysIntr : 39
ChangeDisplaySettingsEx changed rotation angle to 0
WINAPI Matrix_Entry.
readregpword.
ReadRegDWORD.
ReadRegDWORD.
ReadRegDWORD.
ReadRegDWORD.
::Create key_button event end !!
LayMgr.cpp: Layout Manager successfully initialized to 2
-OALIntrRequestSysIntr(irq = 100, sysIntr = 40)
-OALIntrRequestSysIntr(irq = 37, sysIntr = 41)
Maximum Allowed Error 7:
Explorer(V2.0) taskbar thread started.
NDISPWR:: Found adapter [DM9CE1]
Ready Serial: COM1 32, 1 32 Rows, 85 Cols VT100 NLM
```