3.3 WinCE System Installation

Note: This section assumes that you have in front of the method in accordance with the USB driver installed and the development board is set to NOR flash to start the system update and installed NAND flash, please set to start, set the method please refer to previous chapters.

Description: Windows CE install the binary files needed for CD-ROM is located in "\images\wince5.0" directory. Windows CE system installed mainly in the following steps:

(1) Zoning

(2) Install bootloader

(3) Install Eboot

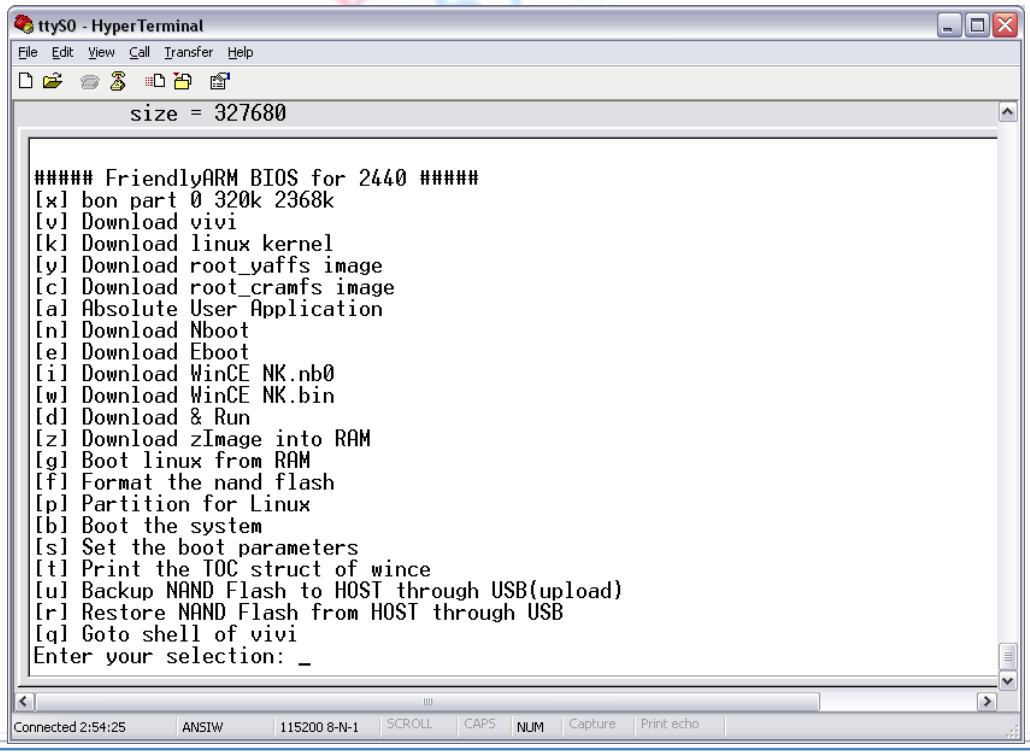
(4) Install Windows CE Kernel Image

The following are the steps in detail.

3.3.1 Zoning

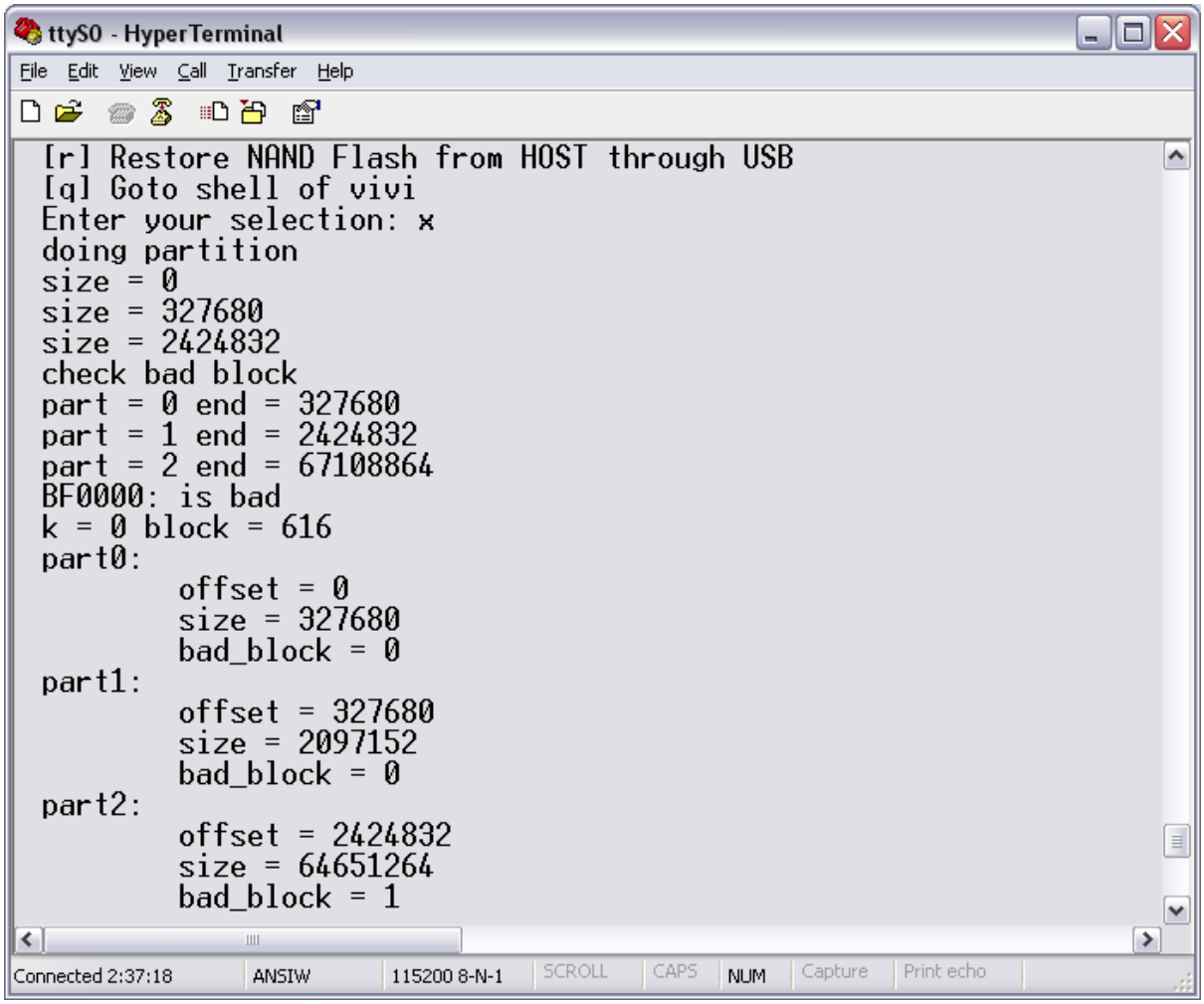
Tip: NAND flash partition will erase all data inside

(1) Serial port connected, open HyperTerminal, start power development board, enter the BIOS menu.



(2) Select [x] to start of NAND flash partition, as shown.

Description: Some of NAND flash zoning district when the report will prompt bad, bad because the district will do supervivi detection records, so this will not affect normal use of the board.



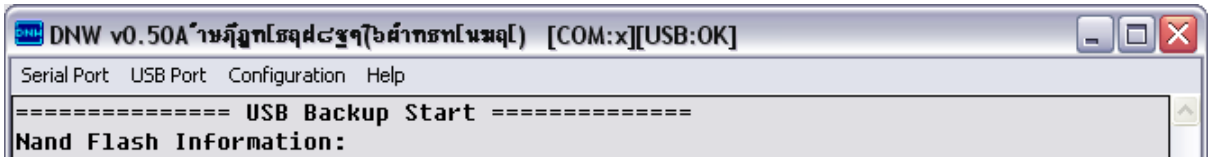
3.3.2 Install bootloader

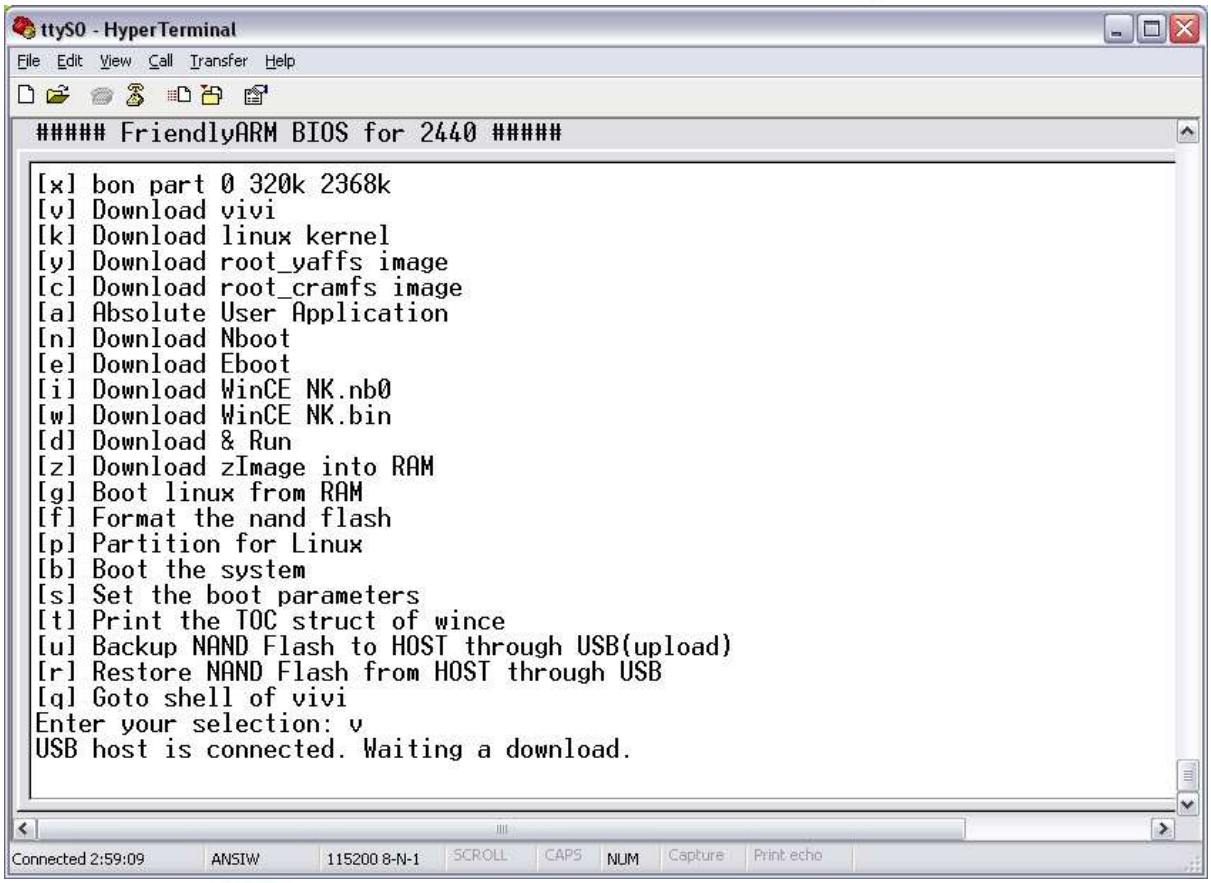
The development board provides two bootloader can boot WINCE: supervivi and nboot.bin, they say prescribed as follows:

	supervivi	Nboot
Binary image file location	\images\wince5.0	\images\wince5.0
The location of the source code	Without	WindowsCE5.0\NBOOT
Project documents	Without	Nboot.mcp
Compiler	arm-linux-gcc	ADS1.2
Description: supervivi by the arm-friendly maintenance and development, does not provide the source code NBOOT compiler, download programmer see chapter 4.6		

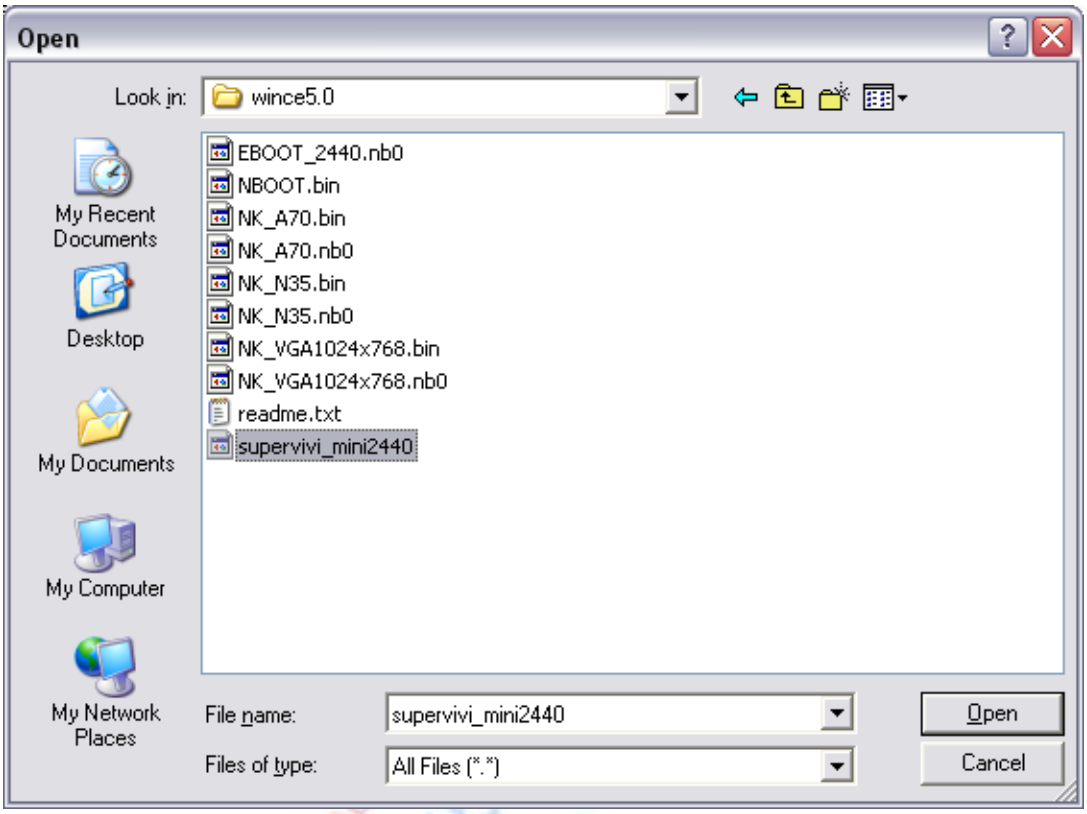
The following is a programmer download supervivi steps:

(1) Open the DNW procedures, connected to USB cable, if the title bar DNW tips [USB: OK], note USB connection, then in accordance with its menu to select the function [v] to start the download supervivi





(2) Click "USB Port-> Transmit" option, and select Open File supervivi (the file is located in CD-ROM\images\wince5.0 directory) to start the download.

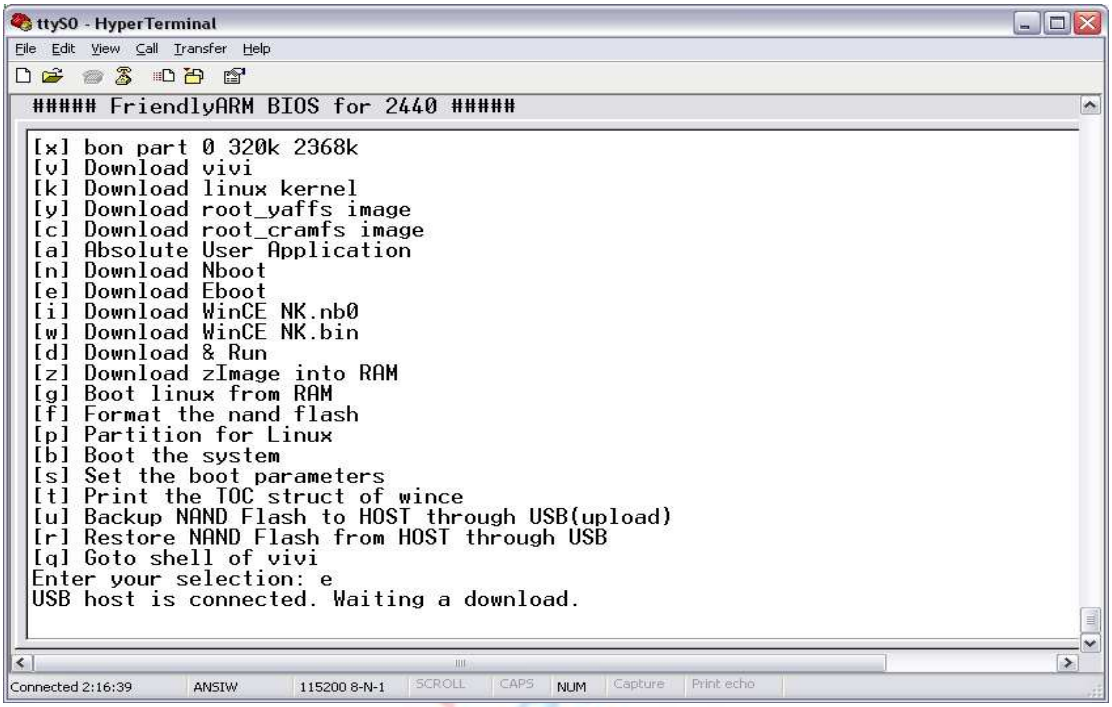


(3) Download, BIOS will automatically NAND flash programmer to the district supervivi, and return to the main menu.

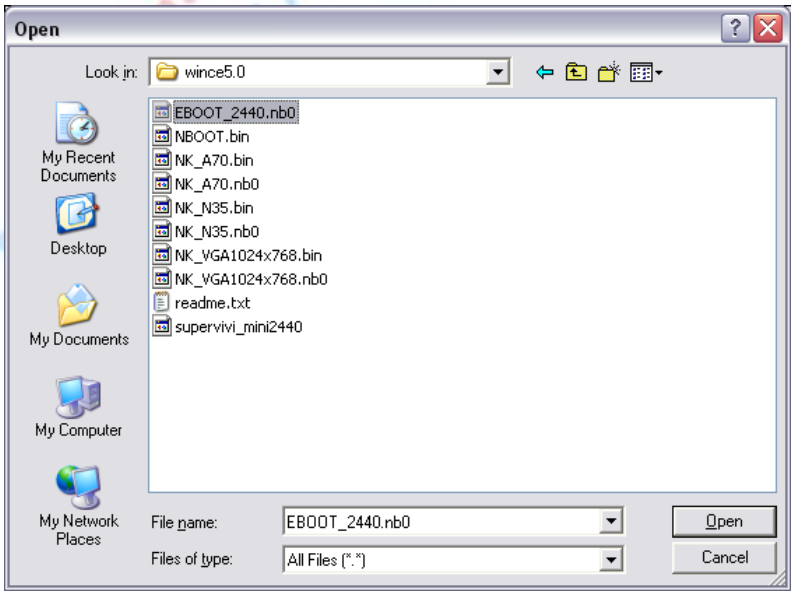
3.3.3 Install Eboot

Description: Eboot only in this role program nk.bin does not have any other purposes.

(1) In the BIOS main menu, select the function [e], to start the download Eboot



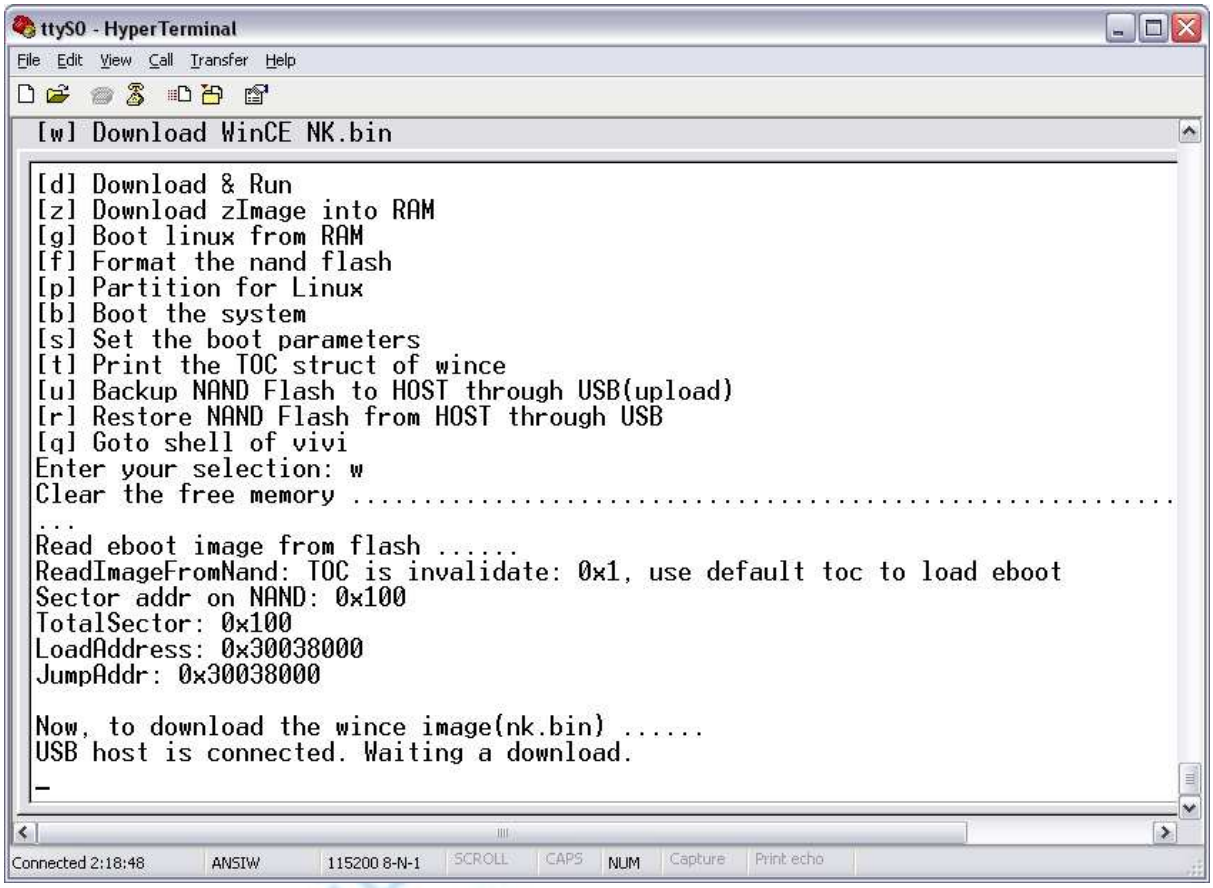
(2) Click "USB Port-> Transmit / Restore" option, and select the file Eboot_2440.nb0



(3) Download, BIOS will automatically Eboot to NAND flash programmer, and to return to the main menu.

3.3.4 Install Windows CE Kernel Image

(1) In the BIOS main menu, select the feature number [w], to start the download WINCE kernel



(2) Click "USB Port-> Transmit / Restore" option, and select file to open the corresponding core NK.bin (the CD-ROM file is located in the \images\wince5.0 directory) to start the download.

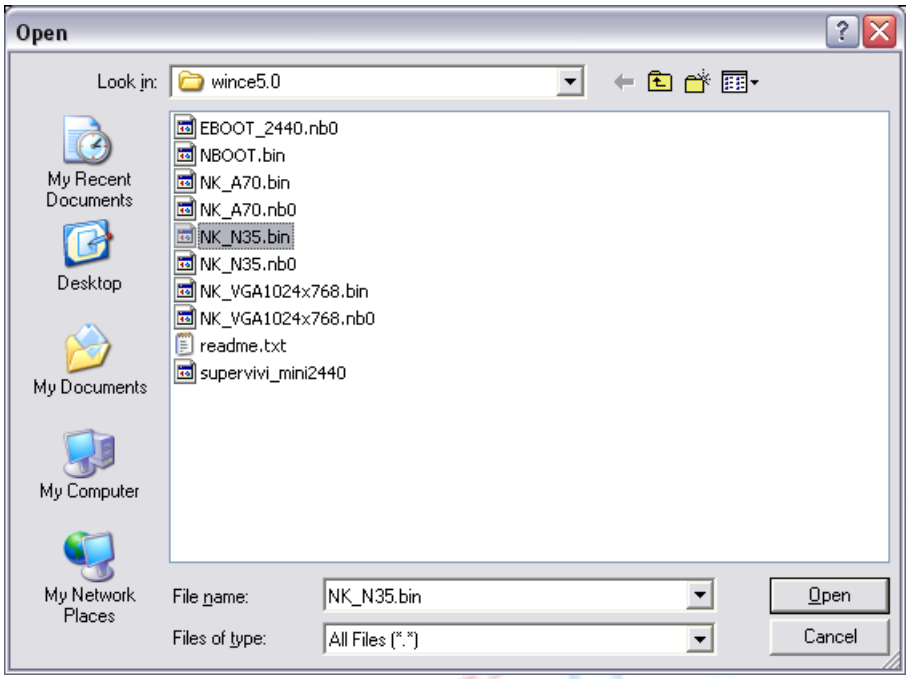
WINCE kernel documentation:

NK_N35.bin - for NEC 3.5 "LCD of the core document

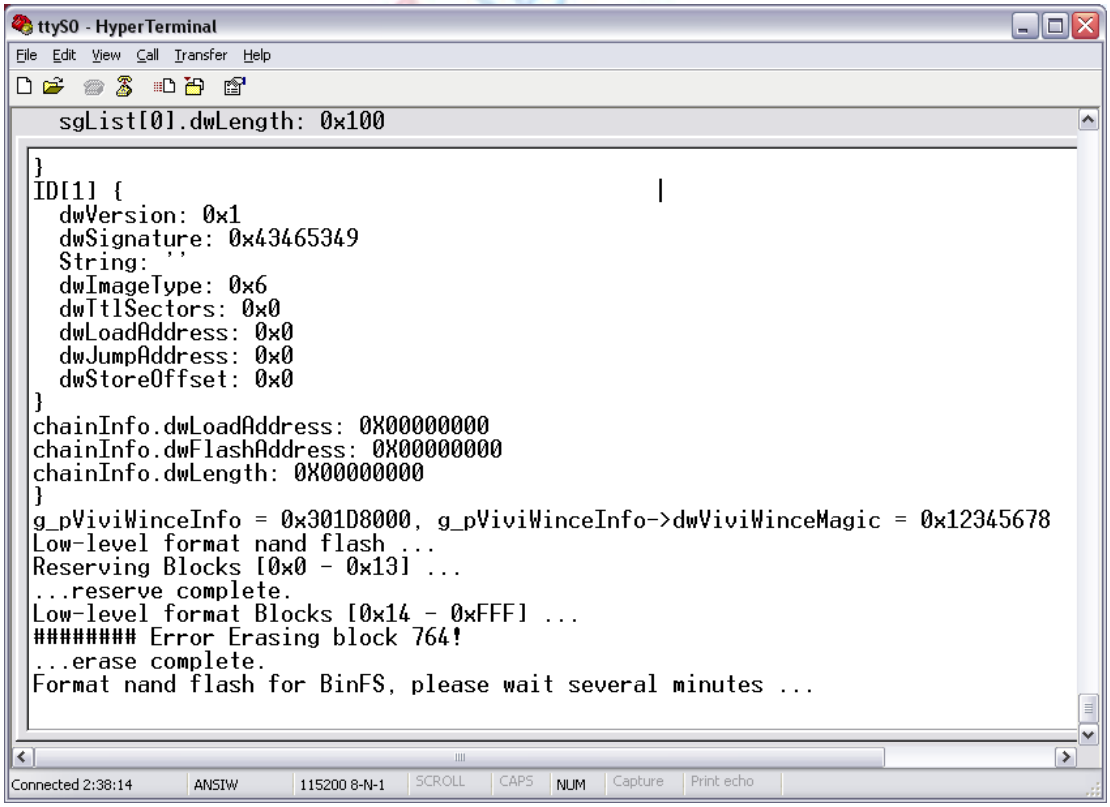
NK_A70.bin - applied to 7-inch true color screen

NK_VGA1024x768.bin - module for VGA output, a resolution of 1024x768

Reality may not be identical with this, please refer to the readme.txt directory images/wince5.0 document describes.



Download is complete, BIOS will automatically call the programmer Eboot format features the beginning of NAND flash, and programmer WINCE kernel image file.



(3) The programmer has finished, WINCE will automatically run, the information appears in Figure: