Trouble Shooting Guide

Literature Number: SPRUGU0
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Contents

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Revision History

Version	Date	Description
1.0	July 2010	Draft
2.1	February 2011	Update

Reference Documents

The documents listed below provide complementary specifications and information for the device:

- WL1271 Getting Started Guide document

About This Document

This document describes how to start working with the AM3715 EVM and the WL1271 connectivity module.

The document contains the following chapters:

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Trouble Shootings

This document describes with the various issues that you could face on with the AM3715 EVM in combination with the WL1271 module (for the Windows Embedded CE 6.0 R3).

Topic

1.1 Boot issue

1.1.1 Trouble

I prepared my SD Card using the Getting Starting Guide document, I can see the bootloader starting, and the screens displayed four colored squares, but after 30 seconds, the screen goes black and stays in this state for ever (more than 5 minutes).

Before trying to fix this, I did one of the following:

- Nothing, I just unboxed it and this is my first try with this platform
- Booted Linux on the OMAP 35x EVM

1.1.2 Fix

Due to some incompatibility between Linux and Windows CE NAND Flash content management, the on board Nand Flash should be formatted first before use time with Windows CE. This is also happens for first time use of the evaluation kit.

This action is required once when switching from Linux runtime image to Windows CE, to clean up the flash content.

To format the on board Nand Flash

1 Install the EVM Flash tool for Micron Flash located in \Tools\EVMFlashTool_vEVM2MicronNAND of the release package.

2 From file explorer :

   a. Go to : X:\Program Files\Texas Instruments\EVMFlash3530_v2.0\usb_drv_windows

   b. Duplicate file evmflashusb.sys into csstusb.sys

3 Set the SW4 to :

Table 1: USB boot

	1	2	3	4	5	6	7	8
OMAP3EVM With Micron NAND	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF

4 Connect the USB cable to your computer using the USB OTG connector located close to the power supply connector.

Note: For OMAP driver installation process please refer to the document EVMFlash User Guide.pdf

Note: Note: binaries (MLO, EBOOTSD.nb0 and NK.BIN) are located in the \Binaries\ folder of the release package.

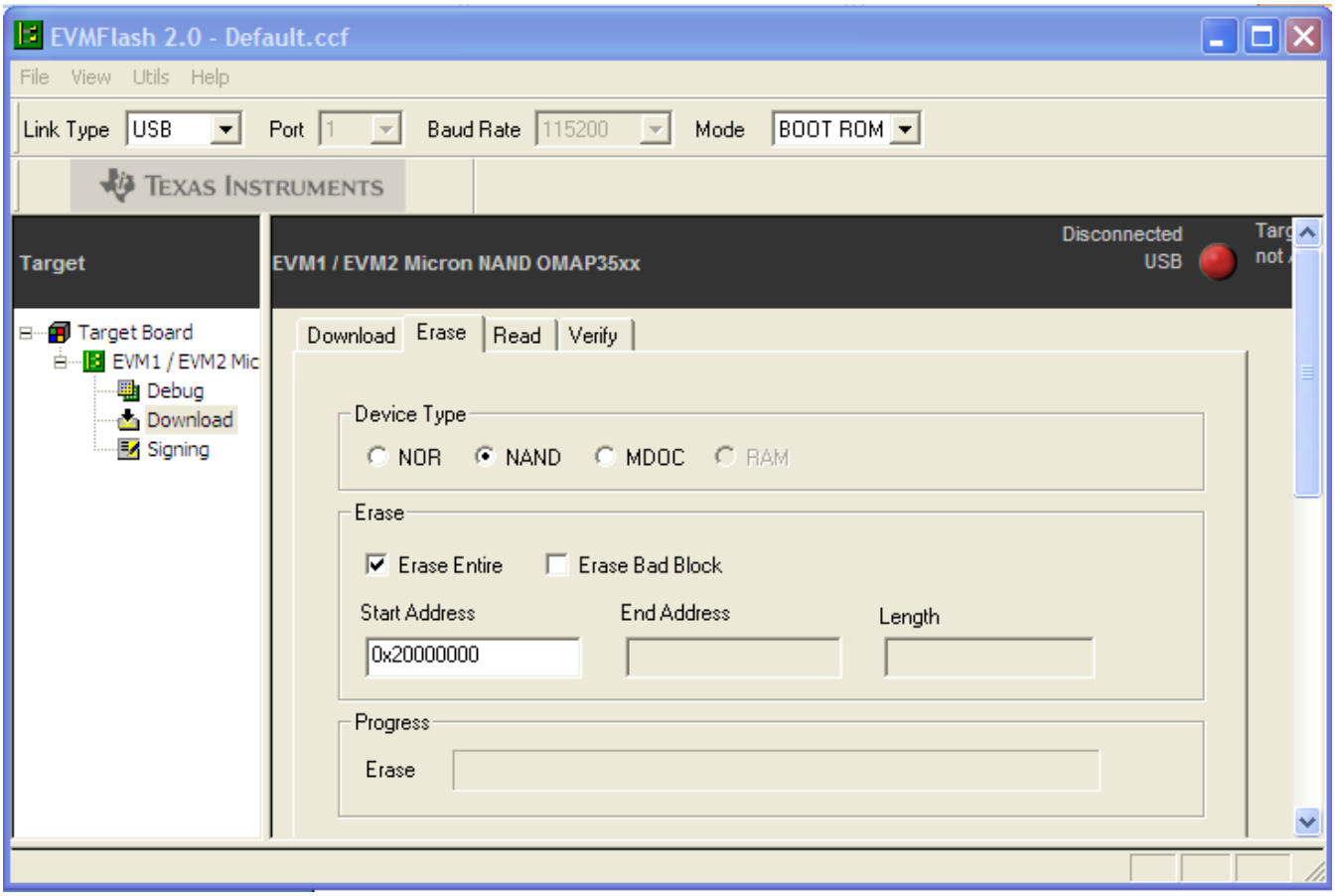
5 Open the EVM Flash application

a. elect the Link type to USB and BOOT ROM

b. Click download in the left tree

c. Erase tab

d. Select NAND and check the Erase entire option



e. Then Erase and follow instructions on the screen

f. Once erase succeeded close the application

Note: The wizard provided in the application is looking for OMAP 3430 and not 3530 so do not get confused.

To load the images to the SD Card

1 Preparing the SD Card to be bootable on the EVM: Use SD card boot utility

Install the TI_SDCard_boot_utility_v1_0.exe that can be found in the \Tools\ folder of the release package.

Step 1. Run the installed utility

Step 2. Select the SD card drive

Step 3. In the “second step” application area (MLO File), browse and Select the MLO that can be found in the \Binaries\ folder of the release package.

Step 4. In the “third step” application area (OS Files), browse and Select the EBOOTSD.NB0 file

Step 5. Click Proceed.

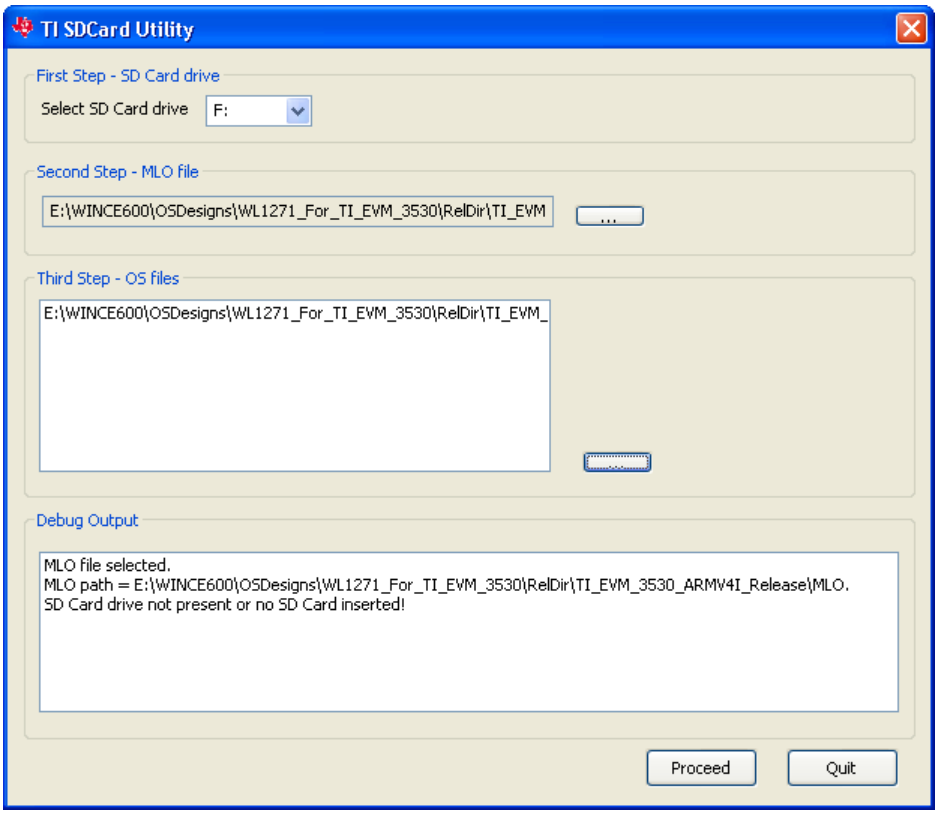
Click "Start" to format the SD card

Click "OK" for Format Warning

Click "OK" once "Format Complete" window pops up

Click "Close" to close the format window

Click "Quit" once the files are copied



Note: Note: binaries (MLO and EBOOTSD.nb0) are located in the \Binaries\ folder of the release package.

Boot from SD Card to automatically format

1 Change the SW4 dip switch configuration for the system to boot from SDCard

Table 2: MMC/SD Boot

	1	2	3	4	5	6	7	8
OMAP3EVM With Micron NAND	ON	ON	ON	OFF	OFF	ON	OFF	OFF

2 Insert the SD Card into the SD Card slot, and power up the board.

3 Wait 1 minute or check the output using the serial port (UART3).

You should see the following on UART3:

```
Texas Instruments Windows CE SD X-Loader for EVM 3530
Built Apr 16 2010 at 08:46:26
Version 6.13.00
open ebootsd.nb0 file
Init HW: controller RST
read ebootsd.nb0 file
jumping to ebootsd image
```

Note: After this formatting, the binaries you have on the SD Card could not be used to load a Windows CE runtime image. So make sure to follow carefully the next instructions to replace those binaries with valid one.