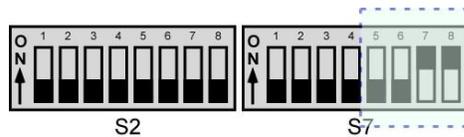


Reflashing the OMAPL138 for winDSK8 (Kernel Version 1003)

The instructions below explain how to program the winDSK8 kernel into the flash memory on the OMAP-L138 board. The winDSK8 kernel code is run by the ARM9 processor and supports the winDSK8 application, as well as the applications based on winDSK8 communications (i.e. C8X_CONTROL, etc.). The winDSK8 kernel can also be placed in a standby mode for more stable access to the DSP when developing applications with Code Composer Studio. This process will overwrite the UBL bootloader installed in the board's flash memory at the factory. The UBL bootloader can be reinstalled later if desired.

- Connect the OMAP-L138 board serial debug connector (P1) to the computer's serial port or a USB-to-serial converter. A null modem cable or adapter will normally be required for this connection
- Set the OMAP-L138 board for a UART2 boot (S7-5 OFF, S7-6 OFF, S7-7 ON, S7-8 ON).



- Connect the power supply to the OMAP-L138 board and turn board power on.
- On the computer, open a command window in the directory containing ***sfh_OMAP-L138.exe*** and ***arm_windsk8_kernel_spi_flash_v1003.bin***. A "Command Prompt Here" shortcut is provided in the directory to simplify this process.
- Copy and paste the text shown below into the command window after editing "COM3" to match the computer COM port number you connected the OMAP-L138 board to. You can find the text in the file ***command.txt*** so you can easily edit it and then paste it into the command window.
 - ***sfh_OMAP-L138 -flash_noubl -p "COM3" -APPStartAddr ffff155c -APPLoadAddr 0xffff0800 arm_windsk8_kernel_spi_flash_v1003.bin***
 - The screen captures below shows the command edited for use with COM40.

```
Administrator: Command Prompt Here
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

E:\WWM Textbook\Working 2nd Edition\Reflashing OMAPL138 for winDSK8>sfh_OMAP-L138 -flash_noubl -p "COM40" -APPStartAddr ffff155c -APPLoadAddr 0xffff0800 arm_windsk8_kernel_spi_flash_v1003.bin
```

- Execute the command. You should see the "Waiting for BOOTME" message as shown below.

```
Administrator: Command Prompt Here - sfh_OMAP-L138 -flash_noubl -p "COM40" -APPStartAddr ff...
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

E:\WWM Textbook\Working 2nd Edition\Reflashing OMAPL138 for winDSK8>sfh_OMAP-L138 -flash_noubl -p "COM40" -APPStartAddr ffff155c -APPLoadAddr 0xffff0800 arm_windsk8_kernel_spi_flash_v1003.bin
-----
TI Serial Flasher Host Program for OMAP-L138
(C) 2010, Texas Instruments, Inc.
Ver. 1.67
-----

[TYPE] Single boot image
[BOOT IMAGE] arm_windsk8_kernel_spi_flash_v1003.bin
[TARGET] OMAPL138
[DEVICE] SPI_MEM

Attempting to connect to device COM40...
Press any key to end this program at any time.

(AIS Parse): Read magic word 0x41504954.
(AIS Parse): Waiting for BOOTME... (power on or reset target now)
```

