

## OVERVIEW

The Keil MCB167-NET board may be equipped with two 29F040B Flash devices that provide 1MB ROM. In-system programming is possible via the COM interface of the MCB167-NET. This application notes comes with an example project and shows you how to program such Flash devices. You need the following components:

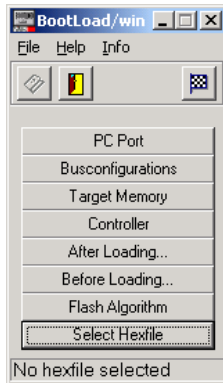
- Keil MCB167-NET board with 29F040B Flash devices and power-supply.
- Keil  $\mu$ Vision2/C166 Development Package.
- Flash tool **BTLDDWin** available from <http://www.hitex.co.uk>. An overview of available Flash utilities is provided at: <http://www.keil.com/flash/utilities.htm>.

## BOARD CONFIGURATION AND SOFTWARE REQUIREMENTS

- Set the MCB167-NET board jumpers to default position.
- Connect COM of the MCB167-NET board with a standard serial cable to your PC.
- Power up the board.
- Install  $\mu$ Vision2/C166 and the BTLDDWin utility.
- Unzip the **Flash\_Blinky** example and build the example program with  $\mu$ Vision2.

## PROGRAM THE FLASH DEVICES ON THE MCB167-NET BOARD

Start the **BTLDWin** utility and make the following settings in the dialog box:



**PC Port:** Select PC Interface and configured 38600 Baud.

**Busconfigurations:** BUSCON0 = 0x04AD, SYSCON = 0x0084, all other BUSCON/ADDRSEL set to 0x0.

**Target Memory:** Load to Flash. Flash Base Address = 0x0, Flash Size in Bytes = 0x100000.

**Controller:** C167 / Derivatives.

**After Loading...:** Jump to Address : 0x0.

**Before Loading...:** Erase flash before loading = YES.

**Flash Algorithm:** 2 AMD Embedded: 29F010, 29F040, 29F400.

**Select Hexfile:** specify the file you want to flash to the MCB167-NET.

Click the toolbar button marked with a **flag** to start programming.

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