

Demo Set-up

The SW Timer_Cascade_1uSec initializes TMR0 and TMR1 module in cascade mode to generate a 1sec pulse. It is targeted at MC56F84789 and its derivatives.

H/W Setup

The h/w consists of:

1. MAPS-MC56F84000 populated with MC56F84789 device
2. USB cable connected to MAPS OSBDM connector
3. 5V Power supply

Before the demo starts, the HW with OSBDM link needs to be set-up.

Application SW

The demo s/w is located in a folder MC56F84000_Timer_Cascade_1uSec. The s/w was designed using CodeWarrior CW10.x

Development Tools

In order to compile run, load and flash the demo the following s/w is necessary to:

1. Install CodeWarrior_CW_MCU_v10.x and Run the CodeWarrior
2. Drag and drop <MC56F84000_Timer_Cascade_1uSec\ .project> into the opened CodeWarrior CW10.x
3. Clean(if the project is the first time run in your workspace) and Build the application code target MC56F84789_Internal_PFlash_SDM
4. Connect a USB cable between the PC host and the mbed USB port (CN7 on the MAPS-56F84000 board).
5. Running/debugging loading the code:
 - a. Run As -> Debug Configuration
 - b. Set the configuration for debug as download for SDM module.
6. Click Debug
7. Start

Running the demo

The following steps are necessary:

1. Connect Power Supply
2. Program the application s/w into the MAPS_84000 board (If the application s/w is not programmed into the MAPS_84000 board, go to section Application SW).

Generated 1sec pulse is available on the pin

1. GPIOC4 – pin12