S5D9 I2C Bus Example
(SCI Framework Version)
By
Michael Li
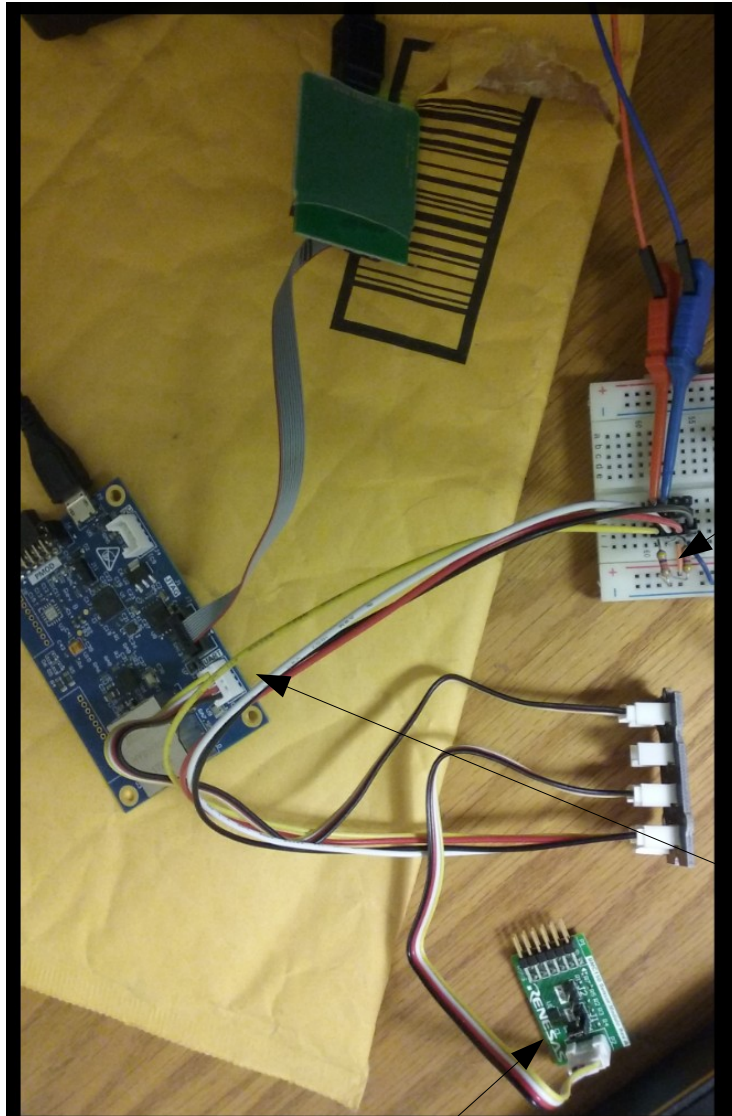# (2/2/2018)
# https://www.miketechuniverse.com

E2 Studio 5.4.0.023
SSP 1.3.0
ThreadX RTOC required

Since UART grove does not have pull up resistors, we need to add manually. Otherwise, the connection can be very simple.

Note: No pullup resistors for P4_10/11. Need to add a pair of 4.7k ohm pull up resistors between SCL/SDA and VCC.
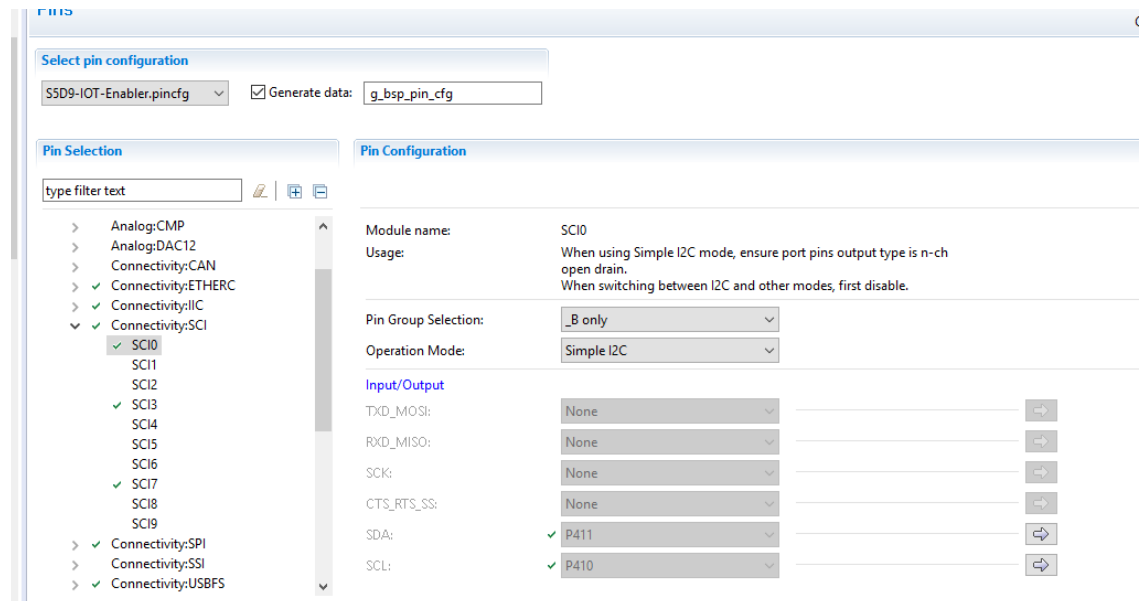
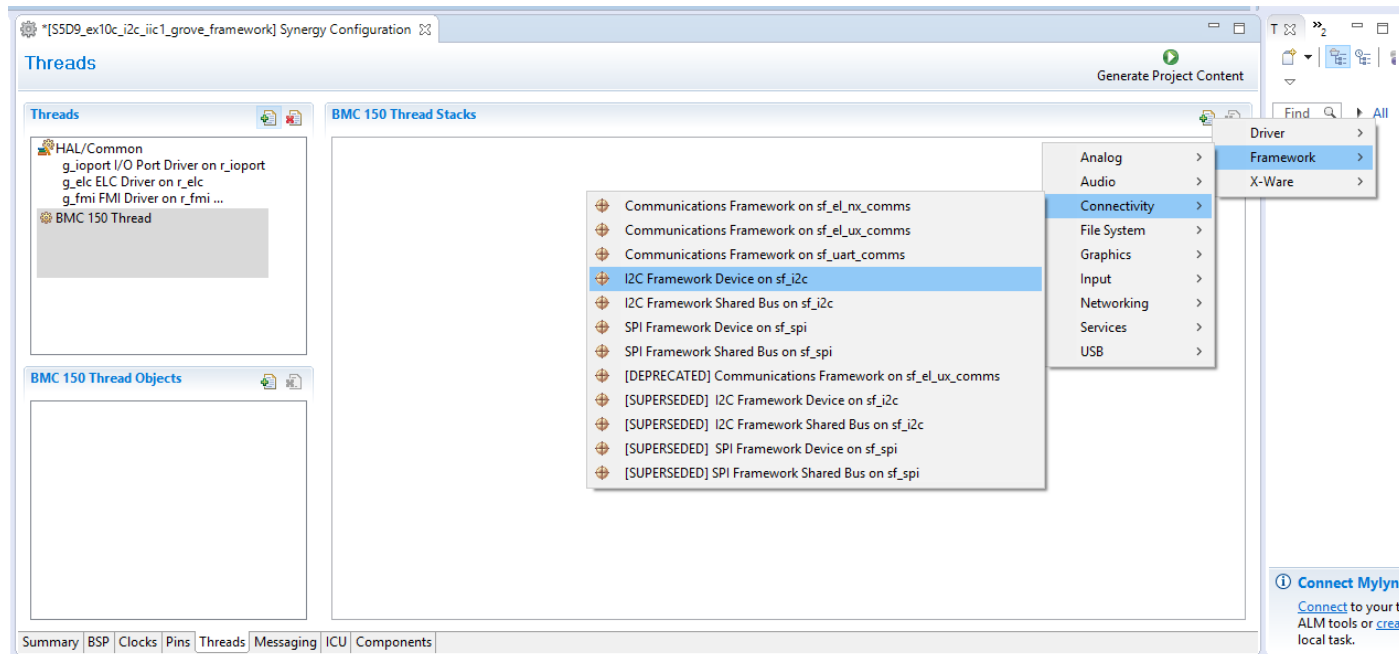I2C hub (used to add the pull up resistors!)

Grove A
J3
P4_10/RXD0
P4_11/TXD0
+3V3
1
2
3
4
C8
0.1uF
GND
GND
Header 4
UART3/GPIO
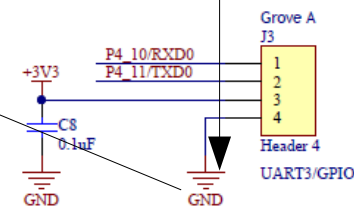
Open for the I2C mode

Change SCI0 from UART to I2C

Add New Thread (BMC 150) and add I2C Framework

Choose r_sci_i2c driver
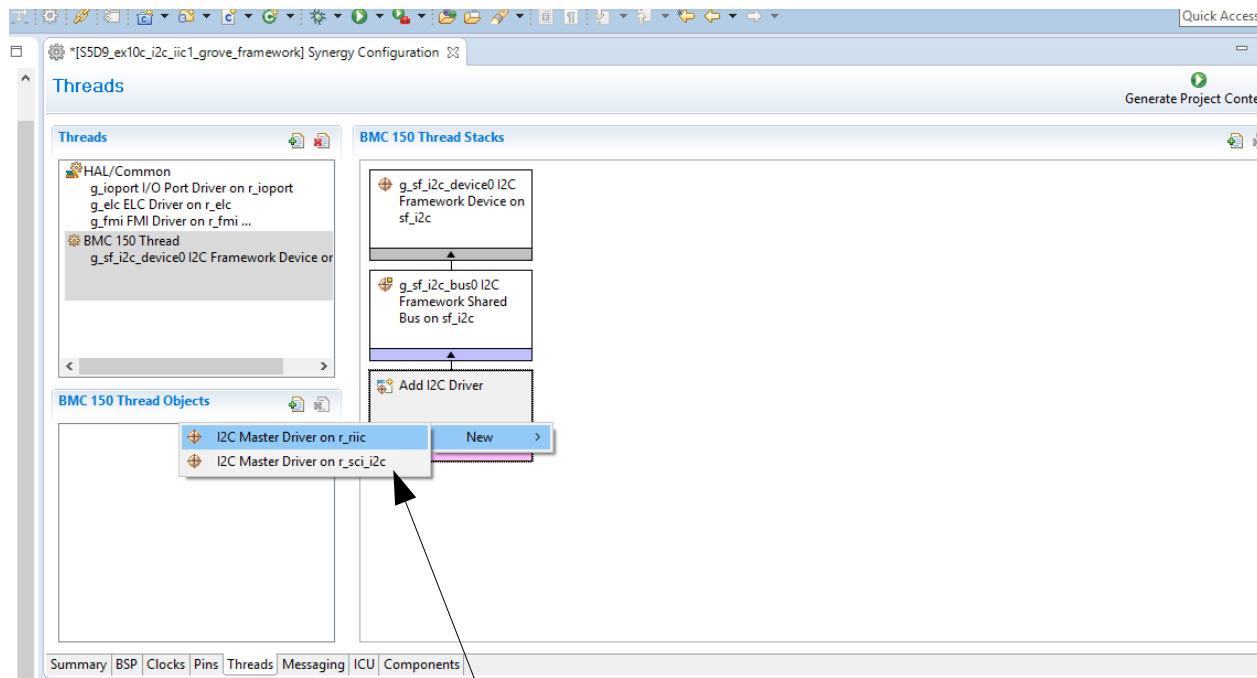
Select the bottom one

Create the new thread

Change Properties

Change Properties

Use channel 0 since sci0 is used.

Main Code

Device ID Read (0xFA)