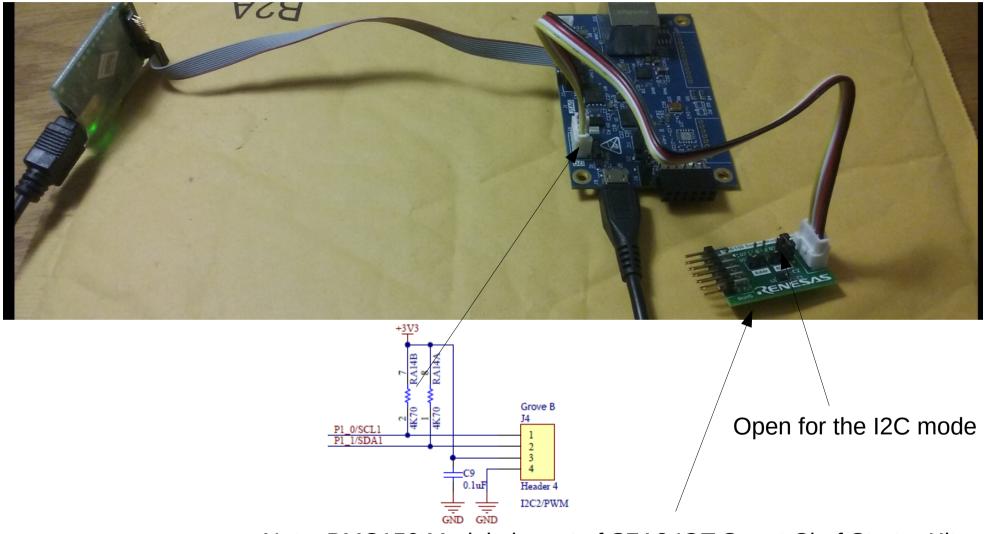
S5D9 I2C Bus Example
(IIC Driver Version)
By
Michael Li
(2/2/2018)

https://www.miketechuniverse.com

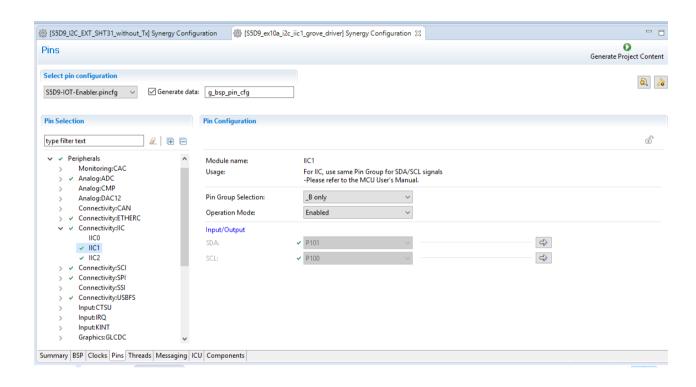
E2 Studio 5.4.0.023 SSP 1.3.0

Hardware Connection

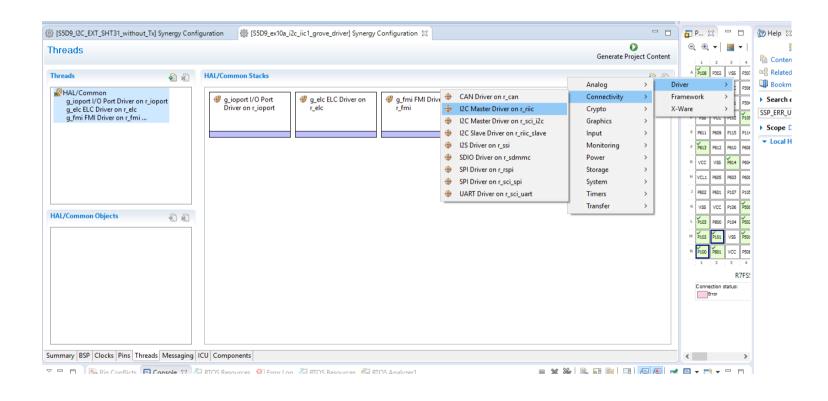


Note: BMC150 Module is part of S7A3 IOT Smart Chef Starter Kit

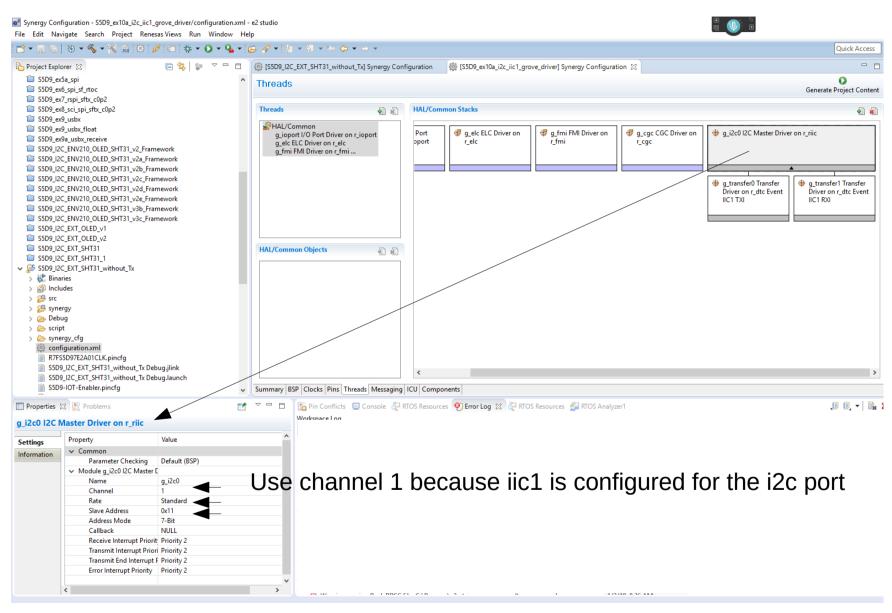
Pin Configuration



Add Driver



Driver Properties



Main Code

```
(S5D9_ex10a_i2c_iic1_grove_driver] Synergy Configuration
                                           g ioport.p api->pinWrite(IOPORT PORT 01 PIN 13, false);
                   //read acceleration
 36 00004a60
                   err = g i2c0.p api->open(g i2c0.p ctrl, g i2c0.p cfg);
 37 00004a6e ⊖
                   if (err)
  38 00004a70
                       g_ioport.p_api->pinWrite(IOPORT_PORT_01_PIN 13, true);
                   while (1)
                        // read xyz value
  45 00004a7a
                        buf[0] = 0x02;
 46 00004a7e
                        err = g_i2c0.p_api->write(g_i2c0.p_ctrl, buf, 1, false);
  47 00004aee ⊖
 48 00004af2
                            g_ioport.p_api->pinWrite(IOPORT_PORT_01_PIN_13, true);
  49 00004a84
                        err = g_i2c0.p_api->read(g_i2c0.p_ctrl, &buf[7], 6, false);
 50 00004a92 ⊖
 51 00004b22
                            g_ioport.p_api->pinWrite(IOPORT_PORT_01_PIN_13, true);
                        //read chip id
 54 00004a96
                        buf[0] = 0x00;
 55 00004a9a
                        err = g_i2c0.p_api->write(g_i2c0.p_ctrl, buf, 1, false);
  56 00004aa6 ⊖
  57 00004b16
                            g ioport.p api->pinWrite(IOPORT PORT 01 PIN 13, true);
 59 00004aaa
                        err = g_i2c0.p_api->read(g_i2c0.p_ctrl, &buf[7], 1, false);
  60 00004ab8 😑
                        if (err)
  61 00004b0a
                            g_ioport.p_api->pinWrite(IOPORT_PORT_01_PIN_13, true);
                        //read temperature
 64 00004aba
                        buf[0] = 0x08;
 65 00004ac0
                        err = g i2c0.p api->write(g i2c0.p ctrl, buf, 1, false);
 66 00004acc 😑
  67 00004afe
                            g_ioport.p_api->pinWrite(IOPORT_PORT_01_PIN 13, true);
  69 00004ace
                        err = g_i2c0.p_api->read(g_i2c0.p_ctrl, &buf[7], 1, false);
  70 00004adc 😑
  1 00004b2e
                            g ioport.p api->pinWrite(IOPORT PORT 01 PIN 13, true);
```

Chip ID Read (0xFA)

