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LAUNCHXL-CC2650: Sensor Controller Studio

sadasivam arumu... Intellectual 940 points
Community Member

Part Number: LAUNCHXL-CC2650

Hi,

I am working on SPI interfacing in Sensor Controller(for sensor interfacing). And I am unable to data transfer. Analyzing with Oscilloscope, unable to get the clock.

Steps taken for interfacing:

1. I/ O mapped to CS, MOSI, MISO, SCLK pins.

2. Code Snippet which was referred from SCS User guide

------>>>

spiBegin(SPI_POL1_PHA0, AUXIO_SPI_CSN_ACCEL);

spiTx8bit(SPI_POL1_PHA0, 48);

spiEnd(SPI_POL1_PHA0, AUXIO_SPI_CSN_ACCEL);

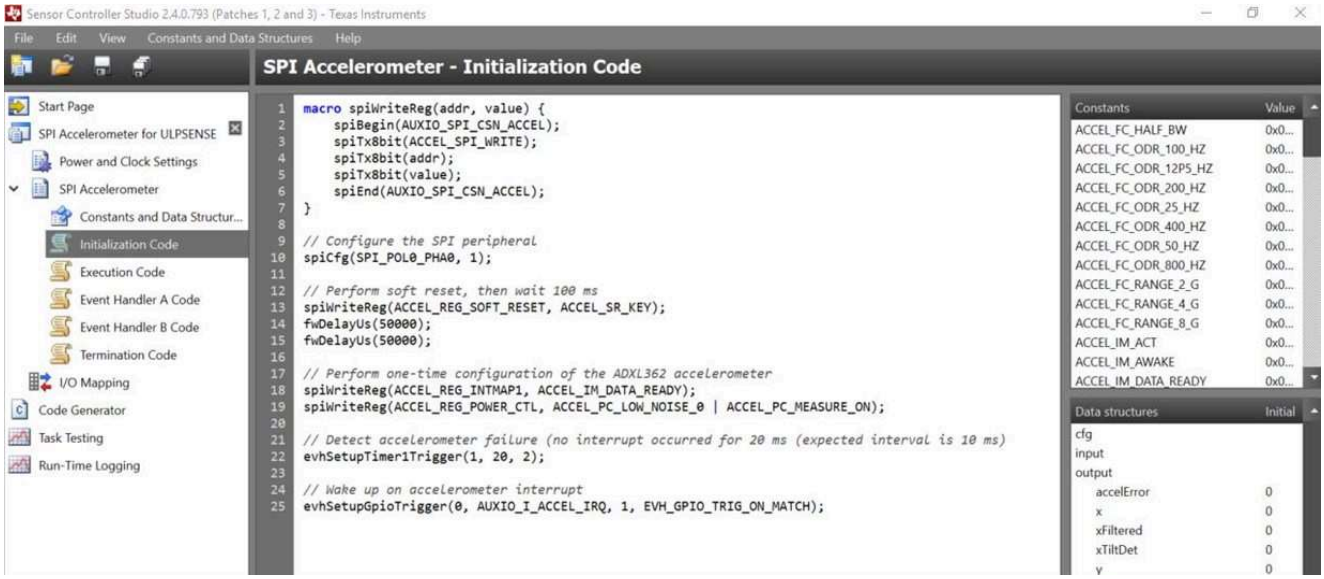
------>>>

3. And in userguide, SPI is mentioned as Bit - Banged SPI. For this interfacing, I want to know whether to generate SPI-CLK manually.

Thanks,

over 6 years ago

Chris Sterzik over 6 years ago
TI__Guru 55721 points
Can you compare with the SPI accelerometer for the ULPSENSE boosterpack?



Regards,
Chris

Simon J *over 6 years ago*

TI__Genius 11810 points

Hi,

Have you remembered to create a trigger for your Sensor Controller Task? You'll need to trigger your task from the RTC (or from an event). In the "Initialization Code"-block you'll need to schedule the first task execution (or set up the event trigger) by calling fwScheduleTask(1). This function must be called at the end of your "Execution Code"-block where you have your SPI code, otherwise you task will be executed only once. Note that the "RTC-based execution scheduling" task resource must be enabled.

You don't need to generate the SPI-CLK manually when you are using the SPI API.

I'll recommend to go through some of our SimpleLink Academy Sensor Controller Modules:

- Sensor Controller Fundamentals
- Sensor Controller Project From Scratch

-Simon

sadasivam arumugam *over 6 years ago in reply to Chris Sterzik*

Intellectual 940 points

Hi,

Thanks for the update. Yes, I have used to write a code based on the SPI accelerometer for the ULPSENSE booster pack. And it is working now. Since I have put the circuit connections incorrectly. And apart from this, I had another doubt on USER-DEFINED FUNCTIONS. I will ask this in USER_DEFINED FUNCTION tag.

sadasivam arumugam *over 6 years ago in reply to Simon J*

Intellectual 940 points

Hi,

Thanks for the reply. Will do the recommended steps you have mentioned and will update.

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