Project Configuration Report
emg_plx_measuring_device

Target Device:

Target Part: EFR32BG22C224F512IM40
Boards:
    - Thunderboard EFR32BG22 (BRD4184A Rev A01)

Target SDK

Gecko SDK Suite v4.1.3: Amazon 202012.00, Bluetooth 4.2.1, Bluetooth Mesh 3.0.3, EmberZNet 7.1.3.0, Flex 3.4.3.0, MCU 6.3.1.0, Micrium OS Kernel 5.13.10, OpenThread 2.1.3.0 (GitHub-2ce3d3bf0), Platform 4.1.0.0, USB 1.0.0.0, Wi-SUN 1.3.2.0, Z-Wave SDK 7.18.3.0
SDK Version: 4.1.3

Project Generators

• Simplicity IDE Project

Installed Software Components:

• Application

    - *Utility*

        Assert
        Configurable: true
        Configs: app_assert_config.h

        Log
        Sources: app_log.c
        Configurable: true
        Configs: app_log_config.h

• Bluetooth

    - *Feature*

        Connection
        Configurable: true
        Configs: sl_bluetooth_connection_config.h

        Legacy Advertising
        Configurable: false

    - *GATT*

        Configuration
        Configurable: true
        Configs: gatt_configuration.btconf

- *OTA*

In-Place OTA DFU
Sources: sl_bt_in_place_ota_dfu.c
Configurable: true
Configs: in_place_ota_dfu.xml

- *Stack*

Bluetooth Core
Sources: sl_bt_stack_init.c, sl_bt_mbedtls_context.c
Configurable: true
Configs: sl_bluetooth_config.h

GATT Server
Configurable: false

System
Configurable: false

- Platform
  - *Board*
    - Thunderboard
      ### BRD4184A
      Configurable: false

  - *Bootloader*

    ### Bootloader Application Interface
    Sources: btl_interface_ns.c, btl_interface_storage.c, btl_interface.c, btl_interface_nsc.c
    Configurable: true
    Configs: btl_interface_cfg_s2c4.h, btl_interface_cfg.h, btl_interface_cfg_s2c1.h,
    btl_interface_cfg_s2c2.h, btl_interface_cfg_s2c3.h

  - *Device*
    - EFR32BG22
      ### EFR32BG22C224F512IM40
      Sources: system_efr32bg22.c, startup_efr32bg22.c
      Configurable: true
      Configs: device.yaml

  - *Driver*
    - Button
      ### Simple Button
      Configurable: true
      Configs: sl_simple_button_btn0_config.h

- I2C
  I2CSPM
  Configurable: true
  Configs: sl_i2cspm_sensor_config.h

- LED
  Simple LED
  Configurable: true
  Configs: sl_simple_led_led0_config.h

- Peripheral
  I2C
  Sources: em_i2c.c
  Configurable: false

  TIMER
  Sources: em_timer.c
  Configurable: false

- Radio
  RAIL Utility, PTI
  Sources: sl_rail_util_pti.c
  Configurable: true
  Configs: sl_rail_util_pti_config.h

- Utilities
  Component Catalog
  Configurable: false

- Services
  Simple MPU
  Sources: sl_mpu.c
  Configurable: false

- IO Stream
  IO Stream: USART
  Configurable: true
  Configs: sl_iostream_usart_vcom_config.h

Pins:

Pin #	Pin Name	Function	Custom Pin Name	Software Component
21	PA00	GPIO mode		Board Control
22	PA01			

23	PA02			
24	PA03			
25	PA04	GPIO mode		Board Control
26	PA05	USART1_TX		IO Stream: USART (vcom)
27	PA06	USART1_RX		IO Stream: USART (vcom)
28	PA07	USART1_RTS		IO Stream: USART (vcom)
29	PA08	USART1_CTS		IO Stream: USART (vcom)
20	PB00	GPIO mode		Simple LED (led0)
19	PB01	GPIO mode		Simple Button (btn0)
18	PB02			
17	PB03			
16	PB04	GPIO mode		Board Control
1	PC00			
2	PC01			
3	PC02			
4	PC03	GPIO mode		MX25 Flash Shutdown with usart
5	PC04	PTI_DOUT		RAIL Utility, PTI
6	PC05	PTI_DFRAME		RAIL Utility, PTI
7	PC06			
8	PC07			
40	PD00			
39	PD01			
38	PD02	I2C1_SDA		I2CSPM (sensor)
37	PD03	I2C1_SCL		I2CSPM (sensor)

Peripherals:

Peripheral	Software Component	Custom Peripheral Name
CMU		
EUART0		
GPIO		
I2C0	I2CSPM (sensor)	
I2C1	I2CSPM (sensor)	
IADC0		
LETIMER0		
LFXO		
MODEM		
PDM		
PRS Channel ASYNCH0		
PRS Channel ASYNCH1		
PRS Channel ASYNCH10		
PRS Channel ASYNCH11		
PRS Channel ASYNCH2		
PRS Channel ASYNCH3		
PRS Channel ASYNCH4		
PRS Channel ASYNCH5		
PRS Channel ASYNCH6		
PRS Channel ASYNCH7		
PRS Channel ASYNCH8		
PRS Channel ASYNCH9		

PRS Channel SYNCH0		
PRS Channel SYNCH1		
PRS Channel SYNCH2		
PRS Channel SYNCH3		
PTI	RAIL Utility, PTI	
TIMER0		
TIMER1		
TIMER2		
TIMER3		
TIMER4		
USART0	IO Stream: USART (vcom)	
USART1	IO Stream: USART (vcom)	