

Project Configuration Report

ecen5823-assignment5-malolasimman

Target Device:

Target Part: EFR32BG13P632F512GM48

Boards:

- Wireless Starter Kit Mainboard (BRD4001A Rev A01)
- EFR32BG13 2.4 GHz 10 dBm Radio Board (BRD4104A Rev A00)

Target SDK

Gecko SDK Suite v3.2.9: Amazon, Bluetooth 3.2.10, Bluetooth Mesh 2.1.10, Flex 3.2.9.0, MCU 6.1.9.0, Micrium OS Kernel, OpenThread 1.2.9.0 (GitHub-a935fc51f), Platform 3.2.9.0, Wi-SUN 1.1.2.0, Z-Wave SDK 7.16.4.0

SDK Version: 3.2.9

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*

- Advertiser**

- Configurable: true

- Configs: sl_bluetooth_advertiser_config.h

- Connection**

- Configurable: true

- Configs: sl_bluetooth_connection_config.h

- Scanner**

- Configurable: false

- *GATT*

Configuration

Configurable: true

Configs: gatt_configuration.btconf

- *OTA*

OTA DFU

Sources: sl_ota_dfu.c

Configurable: true

Configs: ota_dfu.xml

- *Stack*

Bluetooth Core

Sources: sl_bt_mbedtls_context.c

Configurable: true

Configs: sl_bluetooth_config.h

GATT Client

Configurable: false

GATT Server

Configurable: false

Security Manager

Configurable: false

System

Configurable: false

• Platform

- *Board*

• Radio Board

BRD4104A

Configurable: false

- *Bootloader*

Bootloader Application Interface

Sources: btl_interface_storage.c, btl_interface.c

Configurable: false

- *Device*

• EFR32BG13P

EFR32BG13P632F512GM48

Sources: system_efr32bg13p.c, startup_efr32bg13p.c, startup_efr32bg13p.s

Configurable: true

Configs: device.yaml

- *Driver*

GLIB Graphics Library

Sources: glib_font_narrow_6x8.c, glib_line.c, glib_string.c, bmp.c, glib.c, glib_polygon.c, glib_font_number_16x20.c, glib_circle.c, glib_font_normal_8x8.c, glib_rectangle.c, glib_bitmap.c

Configurable: false

GLIB driver for SHARP Memory LCD

Sources: dmd_memlcd.c

Configurable: false

• I2C

I2CSPM

Configurable: true

Configs: sl_i2cspm_sensor_config.h

- *Peripheral*

I2C

Sources: em_i2c.c

Configurable: false

LETIMER

Sources: em_letimer.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

• Status Code

Status Code Strings

Sources: sl_status.c

Configurable: true

Configs: sl_status_string_config.h

• Services

Simple MPU

Sources: sl_mpu.c

Configurable: false

- IO Stream

IO Stream: USART

Configurable: true

Configs: sl_iostream_usart_vcom_config.h

Pins:

Peripherals:

Peripheral	Software Component	Custom Peripheral Name
ACMP0		
ACMP1		
ADC0		
CMU		
DBG		
ETM		
GPIO		
I2C0	I2CSPM (sensor)	
I2C1	I2CSPM (sensor)	
LESENSE		
LETIMER0		
LEUART0		
LFXO		
MODEM		
PCNT0		
PRS Channel CH0		
PRS Channel CH1		
PRS Channel CH2		
PRS Channel CH3		
PRS Channel CH4		
PRS Channel CH5		
PRS Channel CH6		
PRS Channel CH7		
PRS Channel CH8		
PRS Channel CH9		
PRS Channel CH10		
PRS Channel CH11		
PTI	RAIL Utility, PTI	
TIMER0		
TIMER1		
USART0	IO Stream: USART (vcom)	
USART1	IO Stream: USART (vcom)	
USART2	IO Stream: USART (vcom)	
VDAC0		
WTIMER0		