Project Configuration Report
ecen5823-assignment8-VisweshBaskaran

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 v3.2.7: Amazon, Bluetooth 3.2.8, Bluetooth Mesh 2.1.8, Flex 3.2.7.0, MCU 6.1.7.0, Micrium OS Kernel, OpenThread 1.2.7.0 (GitHub-a935fc51f), Platform 3.2.5.0, Wi-SUN 1.1.2.0, Z-Wave SDK 7.16.3.0
SDK Version: 3.2.7

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:

Pin #	Pin Name	Function	Custom Pin Name	Software Component
25	PA0	USART0_TX		IO Stream: USART (vcom)
26	PA1	USART0_RX		IO Stream: USART (vcom)
27	PA2	USART0_CTS		IO Stream: USART (vcom)
28	PA3	USART0_RTS		IO Stream: USART (vcom)
29	PA4			
30	PA5	GPIO mode		Board Control
31	PB11			
32	PB12	PTI_DOUT		RAIL Utility, PTI
33	PB13	PTI_DFRAME		RAIL Utility, PTI
35	PB14			
36	PB15			
47	PC10	I2C0_SCL		I2CSPM (sensor)
48	PC11	I2C0_SDA		I2CSPM (sensor)
43	PC6	USART1_TX		Memory LCD with usart SPI driver
44	PC7			
45	PC8	USART1_CLK		Memory LCD with usart SPI driver
46	PC9			
19	PD10			
20	PD11			
21	PD12			
22	PD13			
23	PD14	GPIO mode		Memory LCD with usart SPI driver
24	PD15	GPIO mode		Board Control
1	PF0			
2	PF1			
3	PF2			
4	PF3			
5	PF4			
6	PF5			
7	PF6			
8	PF7			

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		