Project Configuration Report
ecen5823-assignment8-adna4700

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	GPIO mode		Memory LCD with usart SPI driver
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		