Project Configuration Report
bt_ead_advertiser

Target Device:

Target Part: EFR32BG22C224F512IM40
Boards:
- Wireless Starter Kit Mainboard (BRD4001A Rev A01)
- EFR32BG22 Explorer Kit Board (BRD4108A)

Target SDK

Gecko SDK Suite v4.4.2: Amazon 202012.00, Bluetooth 7.1.0, Bluetooth Mesh 6.1.0, EmberZNet 7.4.2.0, Flex 3.7.2.0, MCU 6.6.2.0, Micrium OS Kernel 5.14.00, OpenThread 2.4.2.0 (GitHub-7074a43e4), Platform 4.4.2.0, Sidewalk 2.0.1, Silicon Labs Matter 2.2.1-1.2, USB 1.2.0.0, Wi-Fi SDK 3.1.4, Wi-SUN 1.10.0.0, Z-Wave SDK 7.21.2.0
SDK Version: 4.4.2

Extensions

• WiSeConnect 3 3.1.4
• Sidewalk 2.0.1
• Silicon Labs Matter 2.2.1

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
- *Application*
• Firmware Update
In-Place OTA DFU
Sources: sl_bt_in_place_ota_dfu.c
Configurable: true
Configs: in_place_ota_dfu.xml, sl_bt_in_place_ota_dfu_config.h

• GATT Services

Device Information GATT Service
Sources: sl_gatt_service_device_information.c
Configurable: false

Static GATT Database and Configuration
Configurable: true
Configs: gatt_configuration.btconf

• Miscellaneous

BLE Post Build
Configurable: false

Encrypted Advertising Data core API
Sources: sl_bt_ead_core.c
Configurable: true
Configs: sl_bt_ead_core_config.h

- Bluetooth Host (Stack)

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

• Features with Commands and Events

GATT Client
Configurable: false

GATT Server
Configurable: false

Security Manager
Configurable: false

System
Configurable: false

- Bluetooth LE Controller (Link Layer)

Connection
Configurable: true
Configs: sl_bluetooth_connection_config.h

Legacy Advertising
Configurable: false

Scanner for legacy advertisements
Configurable: false

- Platform
  - *Board*
    - Mainboard
      BRD4001A
      Configurable: false

    - Thunderboard
      BRD4108A
      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

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

  - *Security*
    - Memory Protection Unit
      Simple MPU
      Sources: sl_mpu.c
      Configurable: false

  - *Utilities*
    Component Catalog
    Configurable: false

- Services
  - *IO Stream*
    - Driver
      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		
22	PA01			
23	PA02			
24	PA03	GPIO_SWV		SWO Debug
25	PA04	GPIO mode		
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			
19	PB01			
18	PB02			
17	PB03			
16	PB04	GPIO mode		
1	PC00			
2	PC01			
3	PC02			
4	PC03	GPIO mode		
5	PC04	PTI_DOUT		RAIL Utility, PTI
6	PC05	PTI_DFRAME		RAIL Utility, PTI
7	PC06			
8	PC07			
40	PD00	LFXO_LFXTAL_O		Low Frequency Crystal Oscillator (LFXO)
39	PD01	LFXO_LFXTAL_I		Low Frequency Crystal Oscillator (LFXO)
38	PD02			
37	PD03			

Peripherals:

Peripheral	Software Component	Custom Peripheral Name
CMU		
EUART0		
GPIO	SWO Debug	
I2C0		
I2C1		
IADC0		
LETIMER0		
LFXO	Low Frequency Crystal Oscillator (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)	