

Project Configuration Report

vcr3

Target Device:

Target Part: EFR32BG22C224F512IM40

Boards:

- Wireless Starter Kit Mainboard (BRD4001A Rev A01)
- EFR32BG22 Explorer Kit Board (BRD4108A)

Target SDK

Gecko SDK Suite v4.4.1: Amazon 202012.00, Bluetooth 7.0.1, Bluetooth Mesh 6.0.1, EmberZNet 7.4.1.0, Flex 3.7.1.0, MCU 6.6.1.0, Micrium OS Kernel 5.14.00, OpenThread 2.4.1.0 (GitHub-7074a43e4), Platform 4.4.1.0, Sidewalk 2.0.1, Silicon Labs Matter 2.2.0-1.2, USB 1.2.0.0, Wi-Fi SDK 3.1.3-rc5, Wi-SUN 1.9.0.0, Z-Wave SDK 7.21.1.0
SDK Version: 4.4.1

Extensions

- Silicon Labs Matter 2.2.0
- WiSeConnect 3 3.1.3
- Sidewalk 2.0.1

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

- *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

- Driver

- Button

- Simple Button**

- Configurable: true

- Configs: sl_simple_button_btn0_config.h

- I2C

- I2CSPM**

- Configurable: true

- Configs: sl_i2cspm_mikroe_config.h

- LED

- Simple LED**

- Configurable: true

- Configs: sl_simple_led_led0_config.h

- 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*

- IO Stream: EUSART Core**

- Sources: sl_iostream_eusart.c

- Configurable: false

- Driver

- IO Stream: EUSART**

- Configurable: true

- Configs: sl_iostream_eusart_vcom_config.h

Pins:

Pin #	Pin Name	Function	Custom Pin Name	Software Component
21	PA00			
22	PA01			
23	PA02			
24	PA03	GPIO_SWV		SWO Debug
25	PA04	GPIO mode		Simple LED (led0)
26	PA05	EUART0_TX		IO Stream: EUSART (vcom)
27	PA06	EUART0_RX		IO Stream: EUSART (vcom)
28	PA07	EUART0_RTS		IO Stream: EUSART (vcom)
29	PA08	EUART0_CTS		IO Stream: EUSART (vcom)
20	PB00			
19	PB01			
18	PB02			
17	PB03			
16	PB04			
1	PC00			
2	PC01			
3	PC02			
4	PC03			
5	PC04	PTI_DOUT		RAIL Utility, PTI
6	PC05	PTI_DFRAME		RAIL Utility, PTI
7	PC06			
8	PC07	GPIO mode		Simple Button (btn0)

40	PD00	LFXO_LFXTAL_O		Low Frequency Crystal Oscillator (LFXO)
39	PD01	LFXO_LFXTAL_I		Low Frequency Crystal Oscillator (LFXO)
38	PD02	I2C1_SCL		I2CSPM (mikroe)
37	PD03	I2C1_SDA		I2CSPM (mikroe)

Peripherals:

Peripheral	Software Component	Custom Peripheral Name
CMU		
EUART0	IO Stream: EUSART (vcom)	
GPIO	SWO Debug	
I2C0	I2CSPM (mikroe)	
I2C1	I2CSPM (mikroe)	
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		
USART1		