

# Project Configuration Report

## final\_project\_bluetooth\_hid

### Target Device:

**Target Part: BGM220PC22HNA**

Boards:

- BGM220 Explorer Kit Board (BRD4314A)

### Target SDK

Gecko SDK Suite v4.3.2: Amazon 202012.00, Bluetooth 6.2.0, Bluetooth Mesh 5.0.2, EmberZNet 7.3.2.0, Flex 3.6.2.0, MCU 6.5.2.0, Micrium OS Kernel 5.14.00, OpenThread 2.3.2.0 (GitHub-e6df00dd6), Platform 4.3.2.0, Third Party Hardware Drivers 1.9.0, USB 1.1.2.0, Wi-SUN 1.7.1.0, Z-Wave SDK 7.20.2.0  
SDK Version: 4.3.2

### Extensions

- Third Party Hardware Drivers 1.9.0

### 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, sl\_bt\_mbedtls\_context.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*

- Thunderboard

- BRD4314A**

- 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*

- BGM22

**BGM220PC22HNA**

Sources: system\_bgm22.c, startup\_bgm22.c

Configurable: true

Configs: device.yaml

- *Driver*

- Button

**Simple Button**

Configurable: true

Configs: sl\_simple\_button\_btn0\_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*

- Driver

**IO Stream: USART**

Configurable: true

Configs: sl\_iostream\_usart\_vcom\_config.h

## Pins:

Pin #	Pin Name	Function	Custom Pin Name	Software Component
7	PA00			
8	PA01			
9	PA02			
10	PA03			
11	PA04			
14	PA05			
15	PA06			
16	PA07			
17	PA08			
6	PB00			
5	PB01			
4	PB02			
3	PB03			
2	PB04			
22	PC00			
23	PC01			
24	PC02			
25	PC03			
26	PC04	PTI_DOUT		
27	PC05	PTI_DFRAME		
28	PC06			
29	PC07			
19	PD02			
18	PD03			

## Peripherals:

Peripheral	Software Component	Custom Peripheral Name
CMU		
EUART0		
GPIO		
I2C0		
I2C1		
IADC0		
LETIMER0		
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		
TIMER0		
TIMER1		
TIMER2		
TIMER3		
TIMER4		
USART0		
USART1		