

Project Configuration Report

NeuroSole

Target Device:

Target Part: BGM240PB32VNA

Boards:

Target SDK

Gecko SDK Suite v4.4.0: Amazon 202012.00, Bluetooth 7.0.0, Bluetooth Mesh 6.0.0, EmberZNet 7.4.0.0, Flex 3.7.0.0, MCU 6.6.0.0, Micrium OS Kernel 5.14.00, OpenThread 2.4.0.0 (GitHub-7074a43e4), Platform 4.4.0.0, USB 1.2.0.0, Wi-SUN 1.8.0.0, Z-Wave SDK 7.21.0.0
SDK Version: 4.4.0

Project Generators

- Simplicity IDE Project

Installed Software Components:

- Application

- *Utility*

Assert

Configurable: true

Configs: app_assert_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

- *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*

- BGM24

BGM240PB32VNA

Sources: system_bgm24.c, startup_bgm24.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

Pins:

Pin #	Pin Name	Function	Custom Pin Name	Software Component
7	PA00			
8	PA01			
9	PA02			
10	PA03			
11	PA04			
12	PA05			
13	PA06			
16	PA07			
17	PA08			
6	PB00			
5	PB01			
4	PB02			
3	PB03			
2	PB04			
22	PC00			
24	PC01			
25	PC02			
26	PC03			
27	PC04			
28	PC05			
29	PC06			
30	PC07			
21	PD00			
20	PD01			
19	PD02			
18	PD03			

Peripherals:

Peripheral	Software Component	Custom Peripheral Name
ACMP0		
ACMP1		
CMU		
EUSART0		
EUSART1		
GPIO		
HFXO0		
I2C0		
I2C1		
IADC0		
KEYSCAN		
LETIMER0		
LFXO		
MODEM		
PCNT0		
PRS Channel ASYNCH0		
PRS Channel ASYNCH1		
PRS Channel ASYNCH10		
PRS Channel ASYNCH11		
PRS Channel ASYNCH12		
PRS Channel ASYNCH13		
PRS Channel ASYNCH14		
PRS Channel ASYNCH15		
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		
VDAC0		
VDAC1		