

# Project Configuration Report

## flame

### Target Device:

**Target Part:** EFR32MG24B310F1536IM48

Boards:

- EFR32xG24 Dev Kit Board (BRD2601B Rev A01)

### 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

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

### Project Generators

- Simplicity IDE Project

### Installed Software Components:

- Application
  - *Utility*
    - Log**
      - Sources: app\_log.c
      - Configurable: true
      - Configs: app\_log\_config.h
- CMSIS
  - *DSP*
    - CMSIS-DSP**
      - Configurable: false
- Machine Learning
  - *TensorFlow*
    - TensorFlow Lite Micro**
      - Sources: sl\_tflite\_micro\_init.cc
      - Configurable: true
      - Configs: sl\_tflite\_micro\_config.h

- Platform

- Board

- Starter Kit

- BRD2601B**

- Configurable: false

- CMSIS

- CMSIS-RTOS2 Headers**

- Configurable: false

- CMSIS-RTOS2 Initialization**

- Sources: os\_systick.c

- Configurable: false

- CMSIS-RTOS2 OS Tick**

- Sources: os\_systick.c

- Configurable: false

- Device

- EFR32MG24

- EFR32MG24B310F1536IM48**

- Sources: startup\_efr32mg24.c, system\_efr32mg24.c

- Configurable: true

- Configs: device.yaml

- Driver

- I2C

- I2CSPM**

- Configurable: true

- Configs: sl\_i2cspm\_sensor\_config.h

- Toolchain

- Toolchain: C++ Support**

- Configurable: false

- RTOS

- Micrium OS

- Kernel

- Micrium OS Kernel**

- Sources: os\_q.c, os\_prio.c, os\_core.c, os\_flag.c, os\_time.c, os\_tmr.c, os\_stat.c, os\_task.c, os\_dbg.c, os\_mon.c, os\_var.c, os\_msg.c, os\_sem.c, os\_cfg\_app.c, cmsis\_os2.c, os\_mutex.c

- Configurable: true

- Configs: os\_cfg.h

- Services

- Device Initialization

- Automatic Device Initialization**

- Configurable: false

- IO Stream

- IO Stream: USART Core**

- Sources: sl\_iostream\_usart.c

- Configurable: false

- Driver

- IO Stream: USART**

- Configurable: true

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

- System Setup

- System Setup**

- Configurable: false

- Timers

- Sleep Timer**

- Sources: sl\_sleeptimer\_hal\_sysrtc.c, sli\_sleeptimer\_hal.h, sl\_sleeptimer\_hal\_timer.c, sl\_sleeptimer\_hal\_rtcc.c, sl\_sleeptimer\_hal\_rtc.c, sl\_sleeptimer\_hal\_burtec.c, sl\_sleeptimer.c, sl\_sleeptimer\_hal\_prortc.c

- Configurable: true

- Configs: sl\_sleeptimer\_config.h

## Pins:

| Pin # | Pin Name | Function  | Custom Pin Name | Software Component      |
|-------|----------|-----------|-----------------|-------------------------|
| 26    | AIN0     |           |                 |                         |
| 25    | AIN1     |           |                 |                         |
| 28    | PA00     |           |                 |                         |
| 29    | PA01     |           |                 |                         |
| 30    | PA02     |           |                 |                         |
| 31    | PA03     | GPIO_SWV  |                 | SWO Debug               |
| 32    | PA04     |           |                 |                         |
| 33    | PA05     | USART0_TX |                 | IO Stream: USART (vcom) |
| 34    | PA06     | USART0_RX |                 | IO Stream: USART (vcom) |
| 35    | PA07     |           |                 |                         |
| 21    | PB00     |           |                 |                         |
| 20    | PB01     |           |                 |                         |
| 19    | PB02     |           |                 |                         |
| 18    | PB03     |           |                 |                         |
| 1     | PC00     |           |                 |                         |

|    |      |               |  |   |
|----|------|---------------|--|---|
| 2  | PC01 |               |  |   |
| 3  | PC02 |               |  |   |
| 4  | PC03 |               |  |   |
| 5  | PC04 | I2C1_SCL      |  | I2CSPM (sensor)                         |
| 6  | PC05 | I2C1_SDA      |  | I2CSPM (sensor)                         |
| 7  | PC06 |               |  |   |
| 8  | PC07 |               |  |   |
| 9  | PC08 | GPIO mode     |  | Board Control                           |
| 10 | PC09 | GPIO mode     |  | Board Control                           |
| 48 | PD00 | LFXO_LFXTAL_O |  | Low Frequency Crystal Oscillator (LFXO) |
| 47 | PD01 | LFXO_LFXTAL_I |  | Low Frequency Crystal Oscillator (LFXO) |
| 46 | PD02 |               |  |   |
| 45 | PD03 |               |  |   |
| 44 | PD04 |               |  |   |
| 43 | PD05 |               |  |   |

## Peripherals:

| Peripheral           | Software Component                      | Custom Peripheral Name |
|----------------------|---|------------------------|
| ACMP0                |   |                        |
| ACMP1                |   |                        |
| CMU                  |   |                        |
| EUSART0              |   |                        |
| EUSART1              |   |                        |
| GPIO                 | SWO Debug                               |                        |
| HFXO0                |   |                        |
| I2C0                 | I2CSPM (sensor)                         |                        |
| I2C1                 | I2CSPM (sensor)                         |                        |
| IADC0                |   |                        |
| KEYSCAN              |   |                        |
| LETIMER0             |   |                        |
| LFXO                 | Low Frequency Crystal Oscillator (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              | IO Stream: USART (vcom) |  |
| VDAC0               |                         |  |
| VDAC1               |                         |  |