

Project Configuration Report

Z3Switch_768_RNZE02S04_LP

Target Device:

Target Part: EFR32MG21A010F768IM32

Boards:

Target SDK

Gecko SDK Suite v4.3.0: Amazon 202012.00, Bluetooth 6.0.0, Bluetooth Mesh 5.0.0, EmberZNet 7.3.0.0, Flex 3.6.0.0, Labs, MCU 6.5.0.0, Matter 2.0.0-1.1, Micrium OS Kernel 5.14.00, OpenThread 2.3.0.0 (GitHub-dae3ff2c5), Platform 4.3.0.0, Sidewalk 1.1.0, Silicon, USB 1.1.2.0, Wi-Fi SDK, Wi-SUN 1.6.0.0, Z-Wave SDK 7.20.0.0
SDK Version: 4.3.0

Extensions

- WiSeConnect 3 3.0.9
- Sidewalk 1.1.0
- Silicon Labs Matter 2.0.0

Project Generators

- Simplicity IDE Project

Installed Software Components:

- Application

- *Utility*

- Timer**

- Sources: app_timer.c

- Configurable: false

- Platform

- *Device*

- EFR32MG21

- EFR32MG21A010F768IM32**

- Sources: startup_efr32mg21.c, system_efr32mg21.c

- Configurable: true

- Configs: device.yaml

- *Driver*

- Button

- Simple Button**

- Configurable: true

- Configs: sl_simple_button_btn3_config.h, sl_simple_button_btn0_config.h,
sl_simple_button_btn2_config.h, sl_simple_button_btn1_config.h

- LED

- Simple LED**

- Configurable: true

- Configs: sl_simple_led_led1_config.h, sl_simple_led_led3_config.h,
sl_simple_led_led0_config.h, sl_simple_led_led2_config.h

- *Peripheral*

- IADC**

- Sources: em_iadc.c

- Configurable: false

- Services

- *IO Stream*

- IO Stream: Recommended Stream**

- Configurable: false

- Driver

- IO Stream: USART**

- Configurable: true

- Configs: sl_iostream_usart_vcom_config.h

- Zigbee

- *Bootloader*

- Zigbee Application Bootloader**

- Sources: app_properties.c

- Configurable: false

- *Cluster Library*

- ZCL Framework Core**

- Sources: process-cluster-message.c, af-node.c, library.c, af-soc-common.c, af-common.c,
af-event.c, zcl-util.c, util.c, global-callback.c, option-cli.c, process-global-message.c,
security-cli.c, zcl-framework-core-cb.c, af-trust-center.c, attribute-size.c,
attribute-storage.c, zigbee-device-library.c, global-other-callback.c, message.c, zdo-cli.c,
service-discovery-soc.c, time-util.c, sl_zigbee_command_interpreter.c, print.c,
service-discovery-common.c, zigbee-device-common.c, attribute-table.c, print-formatter.c,
zcl-cli.c, crypto-state.c, network-cli.c, af-soc.c, multi-network.c, af-security-common.c,
core-cli.c, client-api.c

- Configurable: true

- Configs: zcl-framework-core-config.h

- Common

- Basic Server Cluster**

- Sources: basic-cb.c, basic.c

- Configurable: false

- Groups Client Cluster**

- Sources: groups-client.c

- Configurable: false

Groups Server Cluster

Sources: groups-server.c, groups-server-cli.c, groups-server-cb.c,
groups-server-common.c

Configurable: false

Identify Cluster

Sources: identify-cb.c, identify-cli.c, identify.c

Configurable: false

Scenes Client Cluster

Sources: scenes-client.c

Configurable: false

- Network Form and Join

Scan Dispatch

Sources: scan-dispatch.c

Configurable: true

Configs: scan-dispatch-config.h

- Over-The-Air Bootloading

OTA Bootload Cluster Client

Sources: ota-client-signature-verify.c, ota-client-page-request.c, ota-client.c,
ota-client-cli.c, ota-client-cb.c

Configurable: true

Configs: ota-client-config.h

OTA Bootload Cluster Client Policy

Sources: ota-client-policy.c

Configurable: true

Configs: ota-client-policy-config.h

OTA Cluster Platform Bootloader

Sources: ota-bootload-ncp-uart.c, ota-bootload-ncp.c, ota-bootload-soc.c,
ota-bootload-xmodem.c, ota-bootload-cli.c, ota-bootload-ncp-spi.c

Configurable: true

Configs: ota-bootload-config.h

OTA Simple Storage Module

Sources: ota-storage-simple.c, ota-storage-simple-simulation.c

Configurable: false

- Stack

Binding table

Sources: command-handlers-binding-generated.c

Configurable: true

Configs: sl_zigbee_binding_table_config.h

Install code

Configurable: false

Packet validation

Configurable: false

Zigbee light link

Sources: command-handlers-zll-generated.c

Configurable: true

Configs: sl_zigbee_light_link_config.h

- Pro Core

Pro Leaf Stack

Configurable: true

Configs: sl_zigbee_pro_leaf_stack_config.h

- *Utility*

Counters

Sources: counters-soc.c, counters-cb.c, counters-host.c, counters-ota.c, counters-cli.c, counters-ota-host.c

Configurable: true

Configs: counters-config.h

Debug Print

Sources: sl_zigbee_debug_print.c

Configurable: true

Configs: sl_zigbee_debug_print_config.h

End Device Support

Sources: polling-host.c, polling-soc.c, end-device-support-cb.c, end-device-move.c, polling-common.c, end-device-support.c, end-device-support-cli.c

Configurable: true

Configs: end-device-support-config.h

Fragmentation

Sources: fragmentation-cli.c, fragmentation-host.c, fragmentation-soc.c, fragmentation.c

Configurable: true

Configs: fragmentation-config.h

Interpan

Sources: interpan-host.c, interpan.c, interpan-soc.c, interpan-cb.c, interpan-cli.c

Configurable: true

Configs: interpan-config.h

- Zigbee 3.0

Find and Bind Initiator

Sources: find-and-bind-initiator.c, find-and-bind-initiator-cb.c, find-and-bind-initiator-cli.c

Configurable: true

Configs: find-and-bind-initiator-config.h

Network Steering

Sources: network-steering-host.c, network-steering-cb.c, network-steering.c,
network-steering-v2.c, network-steering-cli.c, network-steering-soc.c

Configurable: true

Configs: network-steering-config.h

Update TC Link Key

Sources: update-tc-link-key.c, update-tc-link-key-cli.c, update-tc-link-key-cb.c

Configurable: true

Configs: update-tc-link-key-config.h

- Zigbee Light Link

ZLL Commissioning Client

Sources: zll-commissioning-client.c, zll-commissioning-client-cb.c

Configurable: true

Configs: zll-commissioning-client-config.h

ZLL Commissioning Common

Sources: zll-commissioning-common.c, zll-commissioning-common-cb.c,
zll-commissioning-cli.c

Configurable: true

Configs: zll-commissioning-common-config.h

ZLL Scenes Client Cluster Enhancements

Sources: zll-scenes-client.c

Configurable: false

ZLL Utility Client Cluster

Sources: zll-utility-client.c

Configurable: false

Pins:

Pin #	Pin Name	Function	Custom Pin Name	Software Component
17	PA00	GPIO mode		Simple Button (btn0)
18	PA01			
19	PA02			
20	PA03	GPIO mode		Simple Button (btn1)
21	PA04	GPIO mode		Simple Button (btn2)

22	PA05	USART0_TX		IO Stream: USART (vcom)
23	PA06	USART0_RX		IO Stream: USART (vcom)
16	PB00	GPIO mode		Simple Button (btn3)
15	PB01			
1	PC00	GPIO mode		Simple LED (led2)
2	PC01	GPIO mode		Simple LED (led0)
3	PC02	GPIO mode		Simple LED (led1)
4	PC03			
5	PC04			
6	PC05			
32	PD00	GPIO mode		Simple LED (led3)
31	PD01			
30	PD02			
29	PD03			
28	PD04			

Peripherals:

Peripheral	Software Component	Custom Peripheral Name
ACMP0		
ACMP1		
CMU		
GPIO		
I2C0		
I2C1		
IADC0		
LETIMER0		
LFXO		
MODEM		
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		

USART0	IO Stream: USART (vcom)	
USART1	IO Stream: USART (vcom)	
USART2	IO Stream: USART (vcom)	