KIT-CYW55310-EVAL Evaluation Kit release notes

About this document

Scope and purpose

Thank you for your interest in the KIT-CYW55310-EVAL Evaluation Kit. This document lists kit contents, installation requirements, kit documentation, and limitations.

Intended audience

This evaluation board is designed for technical specialists familiar with connectivity and is intended for use under laboratory conditions.

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1 Release contents

1.1 Kit contents

The KIT-CYW55310-EVAL Evaluation Kit box includes the following:

1. CYW55310 Evaluation Board (CYW9CPM2BASE1 + CYW55310 M.2 Card)
2. Audio shield board(CYW9BTAUDIO5)
3. USB Type-A to Type-C cable
4. Quick start guide

2 Tool information

2.1 Software and tools

- Code examples for this kit require ModusToolbox™ software 3.8 or later. This is available on the ModusToolbox™ software webpage. See the kit guide for details
- KitProg3 firmware v2.80 or later is required to program the AIROC™ CYW55310 Bluetooth® LE combo device on the kit. The ModusToolbox™ installer automatically installs KitProg3 drivers

2.2 Code examples and kit collateral

The kit webpage includes the documents and hardware files. The code examples are available on the Infineon GitHub repository.

2.3 Installation

All required software installation instructions are provided in the kit guide, which is available on the kit webpage.

2.4 Kit revision

This is the initial revision (Rev. **) of the kit, which includes the Rev04 baseboard (CYW9CPM2BASE1, 121-60638-01), the AIROC™ CYW55310 M.2 card from Ezurio, and the Rev01 Audio Codec Shield (CYW9BTAUDIO5, 121-60640-01).

2.5 Limitations

1. The BT_GPIO_16 and BT_GPIO_17 are used for USER_LED1, USER_LED2 and also connected to Arduino-compatible header pins J3.3 and J3.6 respectively. LEDs can be isolated from the GPIOs with switch SW5 when Arduino-compatible header pins are used.
2. LHL_GPIO_8 and LHL_GPIO_9 are connected to J2.5 and J2.7 and also to J3.4 and J3.5 respectively. Therefore, these Arduino-compatible pins cannot be used simultaneously. SW6 can be used to select between the connections. Also, Potentiometer(R1) is connected to LHL_GPIO_8 and need to be isolated using jumper configuration on the J10 header while using for other functions.
3. LHL_GPIO_2 and LHL_GPIO_3 are used for the peripheral UART and connected to the KitProg3 as a secondary UART port for logs. The same pins are also used for the Arduino-compatible header UART (J4.1 and J4.2). Select these connections by changing the tri-pad resister configurations.

   See the Rework Section in the Kit User Guide for additional information.
4. Analog pins on the Arduino-compatible header J2 (A0-A3) support with only a 1.8 V level.
5. The CYW55310 device has three Serial Communication Blocks (SCBs) that supports three serial communication protocols: SPI, UART, and I2C. Only one of the protocols is supported by an SCB at any given time. In EVK, the SPI interface to the Arduino header J3 and the Peripheral UART available on the USB connector(J6) uses the same SCB block (SCB1). So only one of them can be accessed at any given time.

2.6 Documentation

The following kit documents are available on the kit webpage.

- KIT-CYW55310-EVAL Evaluation Kit guide

- KIT-CYW55310-EVAL Evaluation Kit quick start guide
- KIT-CYW55310-EVAL Evaluation Kit release notes

2.7 Technical support

For assistance, go to www.infineon.com/support. Visit community.infineon.com to ask your questions in the Infineon developer community.

2.8 Additional information

- For more information about ModusToolbox™ software functionality and releases, visit the ModusToolbox™ software webpage:www.infineon.com/cms/en/design-support/tools/sdk/modustoolbox-software
- For a list of trainings on ModusToolbox™ software, visit www.github.com/Infineon/training-modustoolbox.
- For more details of the AIROC™ CYW55310 module from Ezurio, visit https://www.ezurio.com/wireless-modules/bluetooth-modules/vela-if310-bluetooth-6-classic-and-le-module

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