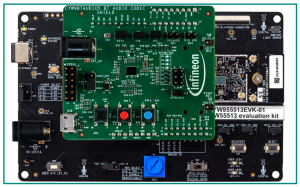
QUICK START GUIDE

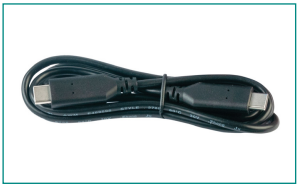
AIROC™ CYW55513 Wi-Fi & Bluetooth® combo Audio Development Kit

CYW955513EVK-01

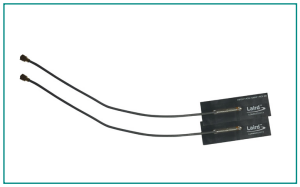
Kit contents

1. CYW55513 evaluation board
2. Audio shield board
3. USB-C to USB-C cable
4. Two tri-band PCB antenna
5. Quick start guide (this document)



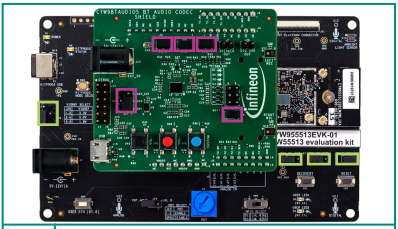








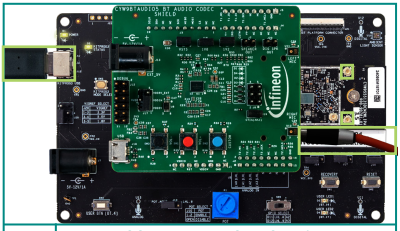
www.infineon.com/CYW955513EVK-01



1 Default jumper settings

Baseboard jumpers	Position
J14	1-2
J16	Open
J17	Open
J10	Open
J20	3-5

Audio shield jumpers	Position
J14	1-2
J15	1-2
J16	1-2
J17	1-3
J19	1-2



2 USB Cable connected to the Kitprog3 USB connector (J6) and headset connected to the Audio shield headset jack (J10)

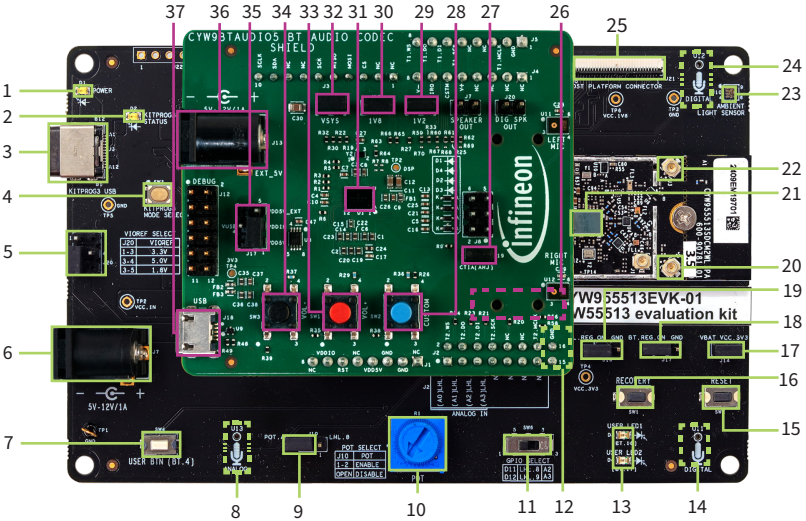
Before you start

1. Ensure to have the following:
   - PC with Type-C USB port
   - UART terminal software such as Tera Term or Minicom.
2. Set the jumpers on the board as mentioned in the table.
3. Connect the KitProg3 USB connector (J6) to your PC, using the USB cable provided and wait for the driver installation to complete and confirm that LEDs (D1, D2) are on.
4. Connect the headset to the headset jack connector (J10) on the Audio shield board.
5. Connect the PCB antennas to the UFL connectors (J2, J3) on the M.2 module.
6. Press and hold the KitProg3 mode switch (SW3) for two seconds to enable dual UART mode and Kitprog3 status LED (D2) blinks. This enables the peripheral UART COM port for viewing the logs and the HCI UART COM port for programming.

Connect the kit with the UART terminal software

1. Open the serial terminal application and connect to the peripheral COM port with the following settings:
   - Baud rate: 115200 bps; Data: 8 bits; Parity: None; Stop: 1 bit; Flow control: None; New line for receive data: Line Feed (LF) or auto-setting.
2. Open the ModusToolbox™ (3.2 or later), program and explore the code examples available for the CYW955513EVK-01 kit under the AIROC™ Connectivity BSPs.
3. If there are issues in downloading the code example to the kit do as follows:
   - Press and hold the recovery button (SW1) and then, press the reset button (SW2) on the baseboard.
   - Release the reset button (SW2) after one second, release the recovery button (SW1) on the baseboard and retry.

CYW955513EVK-01 Evaluation board details



CYW955513EVK baseboard

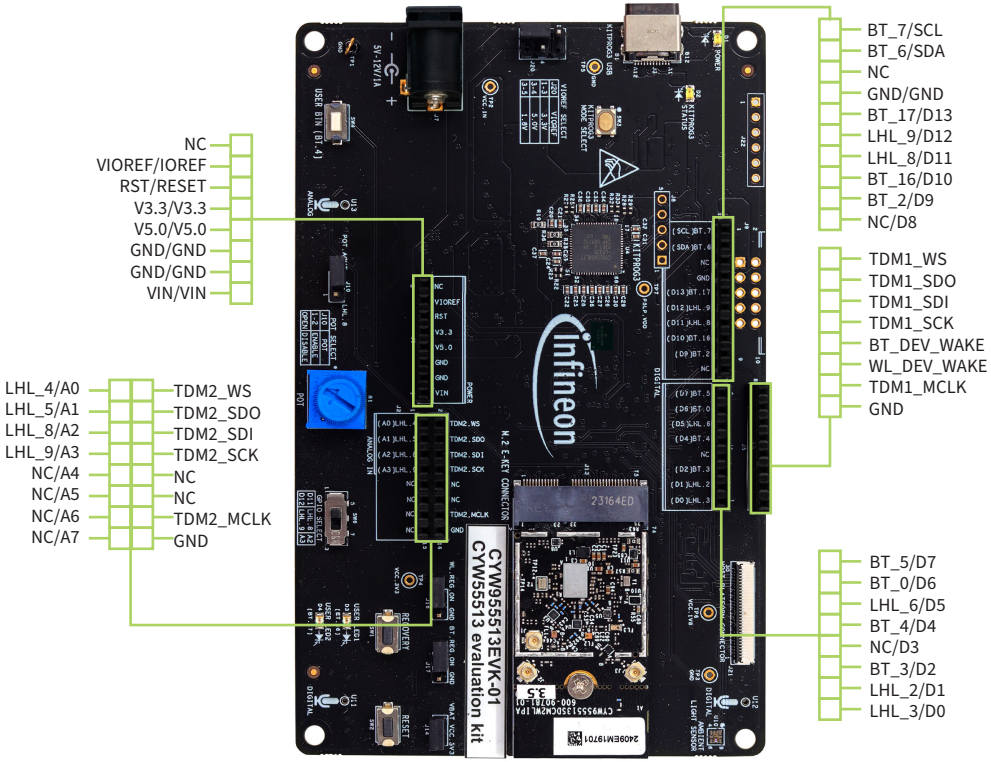
1 Power LED (D1)
2 KitProg3 status LED (D2)
3 KitProg3 USB-C connector (J6)
4 KitProg3 mode selection button (SW3)
5 VIOREF voltage selection jumper (J20)
6 External power supply VIN connector (J7)
7 User button (SW4)
8 Analog mic (U13)*
9 Potentiometer connection jumper (J10)
10 Potentiometer (R1)
11 GPIO select switch (SW6)
12 LED enable/disable switch(SW5)*
13 User LEDs (D3, D4)
14 Digital mic 1 (U11)*
15 Reset button (SW2)
16 Recovery button (SW1)
17 VBAT current measurement jumper (J14)
18 Bluetooth® section disable jumper (J17)
19 WLAN section disable jumper (J16)
20 Antenna connector 2 (J2)
21 AIROC™ CYW55513 Wi-Fi & Bluetooth® combo chip (CYW55513IUBGT, U1)
22 Antenna connector 1 (J3)
23 Ambient light sensor (U10)
24 Digital mic 2 (U12)*
25 External host platform interface connector (J21)

Audio Shield Board (CYW9BTAUDIO5)

26 CTIA headset connector (J10)*
27 CTIA headset jumper (J19)
28 Custom button (SW2)
29 Codec 1.2 V jumper (J15)
30 Codec 1.8 V jumper (J16)
31 Audio codec CS47L35 (U1)
32 VSYS enable jumper (J14)
33 Volume increase button (SW1)
34 Volume decrease button (SW3)
35 VDDIN selection jumper (J17)
36 External 5 V DC Jack (J13)
37 Micro-USB connector for USB-I2C bridge (J18)

* Component is located at the bottom side of the board

CYW955513EVK-01 Evaluation board pinout details



See the kit guide available at www.infineon.com/CYW955513EVK-01 for more details.

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