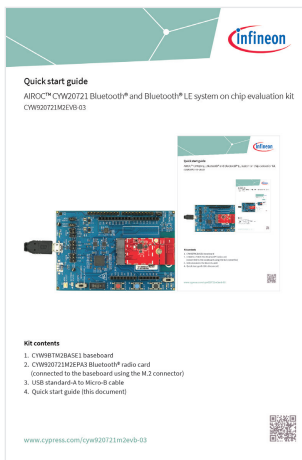
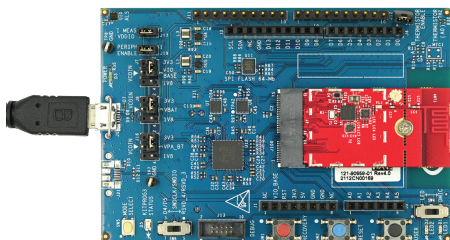


Quick start guide

AIROC™ CYW20721 Bluetooth® and Bluetooth® LE system on chip evaluation kit
CYW920721M2EVb-03



Kit contents

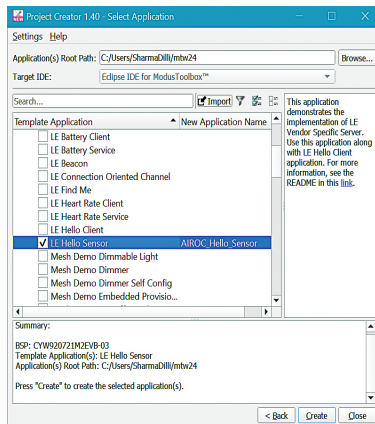
1. CYW9BTM2BASE1 baseboard
2. CYW920721M2EPA3 Bluetooth® radio card
(connected to the baseboard using the M.2 connector)
3. USB standard-A to Micro-B cable
4. Quick start guide (this document)



Before you start

1. Register on the Developer Community and then download and install ModusToolbox™ software v2.4 (or later) with the Bluetooth® SDK at <https://www.cypress.com/products/modustoolbox>.
2. Do the following to download and install the ‘HelloSensor’ code example. This step will also install the ‘HelloClient’ peer application required later.
 - a. In Eclipse IDE for ModusToolbox™ software, select **File > New application**. This launches the project creator.
 - b. In the project creator, click **AIROC™ Bluetooth® BSPs**.
 - c. Select the ‘CYW920721M2EVB-03’ kit and click **Next**.
 - d. Click **Create** and then click **Close**.

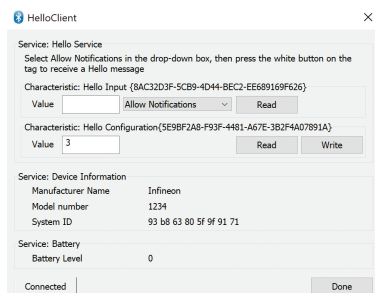
Note: The kit is pre-programmed with the ‘Hello Sensor’ application.
3. Connect a USB cable between the PC and CYW920721M2EVB-03 (J6) to power the kit.



ModusToolbox™ software

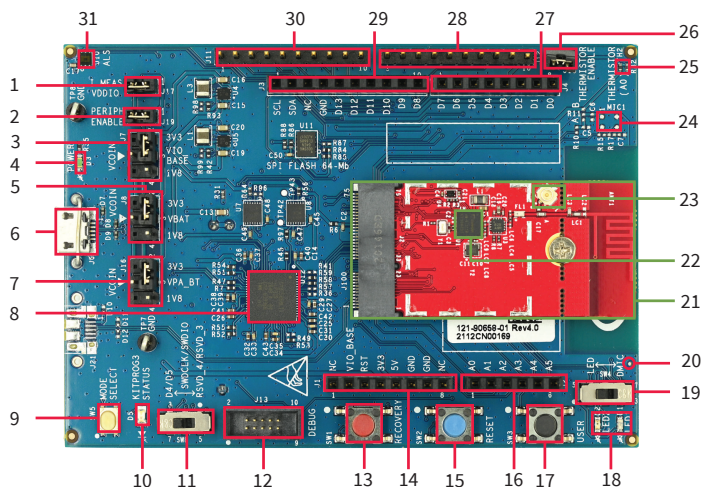
Run the ‘HelloClient’ application

1. Locate the ‘HelloClient’ peer sample application that complements the ‘HelloSensor’ application at `...\\mtw23\\mtb_shared\\wiced_btsdk\\tools\\btsdk-peer-apps-ble\\release-v3.2.0\\hello_sensor\\Windows\\HelloClient\\Release\\x64`.
2. Run the HelloClient executable and select the HelloSensor device, which appears as a device with the name ‘Hello’.
3. When prompted, allow pairing from the client to the HelloSensor device.
4. In the HelloClient window, select **Allow Notifications** next to the **Hello Input** characteristic.
5. Press button **SW3** on the evaluation kit. Observe that the **Value** field shows the Hello 1 message.
6. Press **SW3** again, and observe that the **Value** field is incremented.



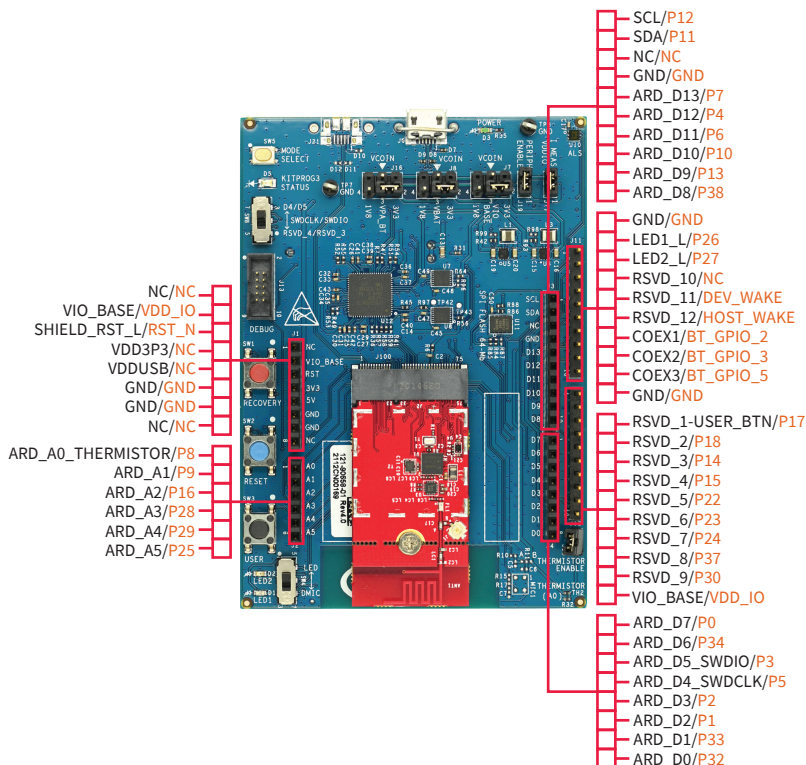
HelloClient application

AIROC™ CYW20721 evaluation kit details



- | | |
|--|---|
| 1. VDDIO current measurement jumper (J17) | 17. User button (SW3) |
| 2. Peripheral enable jumper (J19) | 18. User LEDs (D1, D2) |
| 3. VDDIO select jumper (J7) | 19. User LED/DMIC switch (SW4) |
| 4. Baseboard power status LED (D3) | 20. Digital mic sound port (J16) |
| 5. VBAT select jumper (J8) | 21. CYW920721M2EPA3 Bluetooth® M.2 radio card |
| 6. USB connector for programming/USB-UART (J6) | 22. Azurewave AW-BT315W Bluetooth® and Bluetooth® LE module (CYW920721M2EPA3.U1A) |
| 7. VPA select jumper (J16) | 23. External antenna connector (CYW920721M2EPA3.J1) |
| 8. KitProg3 based on PSoC™ 5LP MCU (U12) | 24. Analog mic footprint (MIC1) |
| 9. KitProg3 mode select (SW5) | 25. Thermistor (TH2) |
| 10. KitProg3 status LED (D5) | 26. Thermistor enable jumper (J18) |
| 11. Debug interface select jumper (SW8) | 27. Header compatible with Arduino (J4) |
| 12. Debug header (J13) | 28. Bluetooth® I/O header (J12) |
| 13. Recovery button (SW1) | 29. Header compatible with Arduino (J3) |
| 14. Header compatible with Arduino (J1) | 30. Bluetooth® I/O header (J11) |
| 15. Reset button (SW2) | 31. Ambient light sensor (U10) |
| 16. Header compatible with Arduino (J2) | |

AIROC™ CYW20721 evaluation kit pinout details



Legend ■ Baseboard I/Os ■ CYW20721 I/Os

www.infineon.com

Published by
Infineon Technologies AG
81726 Munich, Germany

© 2021 Infineon Technologies AG.
All Rights Reserved.

Please note!

THIS DOCUMENT IS FOR INFORMATION PURPOSES ONLY AND ANY INFORMATION GIVEN HEREIN SHALL IN NO EVENT BE REGARDED AS A WARRANTY, GUARANTEE OR DESCRIPTION OF ANY FUNCTIONALITY, CONDITIONS AND/OR QUALITY OF OUR PRODUCTS OR ANY SUITABILITY FOR A PARTICULAR PURPOSE. WITH REGARD TO THE TECHNICAL SPECIFICATIONS OF OUR PRODUCTS, WE KINDLY ASK YOU TO REFER TO THE RELEVANT PRODUCT DATA SHEETS PROVIDED BY US. OUR CUSTOMERS AND THEIR TECHNICAL DEPARTMENTS ARE REQUIRED TO EVALUATE THE SUITABILITY OF OUR PRODUCTS FOR THE INTENDED APPLICATION.

WE RESERVE THE RIGHT TO CHANGE THIS DOCUMENT AND/OR THE INFORMATION GIVEN HEREIN AT ANY TIME.

Additional information

For further information on technologies, our products, the application of our products, delivery terms and conditions and/or prices, please contact your nearest Infineon Technologies office (www.infineon.com).

Warnings

Due to technical requirements, our products may contain dangerous substances. For information on the types in question, please contact your nearest Infineon Technologies office.

Except as otherwise explicitly approved by us in a written document signed by authorized representatives of Infineon Technologies, our products may not be used in any life-endangering applications, including but not limited to medical, nuclear, military, life-critical or any other applications where a failure of the product or any consequences of the use thereof can result in personal injury.