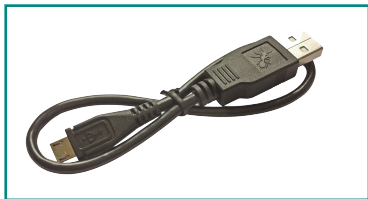
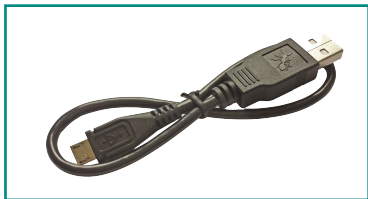
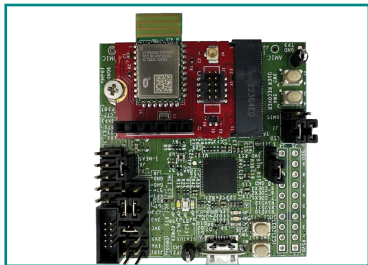
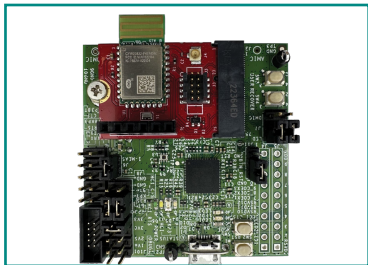


AIROC™ Bluetooth® Module Evaluation Kit

CYW920822M2P4TAI040-EVK

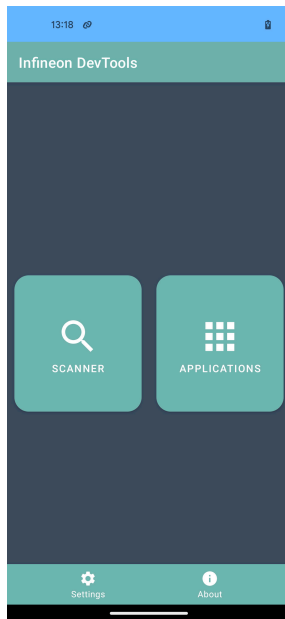
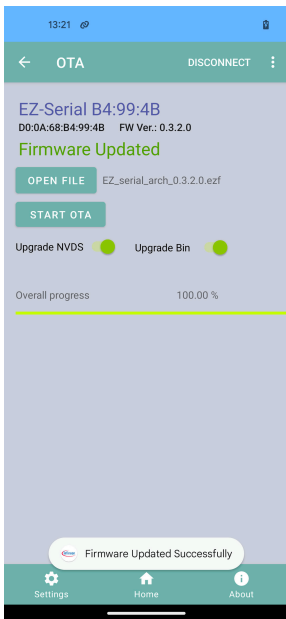
Kit contents

1. 2 x CYW9BTMDM2BASE1 baseboards
2. 2 x CYW920822M2P4TAI040 Bluetooth® radio cards (connected to the baseboard using the M.2 connector)
3. 2 x USB standard-A to Micro-B cables
4. Quick start guide (this document)



Before you start

1. Download and install the Infineon DevTools It can be found at www.infineon.com/CYW920822M2P4TAI040-EVK
2. Download the latest EZ-Serial firmware image for CYW920822M2P4TAI040-EVK www.infineon.com/CYW920822M2P4TAI040-EVK



3. Follow these steps to update the CYW920822M2P4TAI040-EVK firmware.
 - Copy the latest EZ-Serial firmware image file to the mobile phone's user storage.
 - Scan and connect to the device named EZ-Serial XX:XX:XX
 - In the OTA page, click on OPEN FILE to open the system's file browser to select the file from the storage path.
 - Clicking START OTA triggers the upgrade process automatically. Track the progress at the bottom of the screen. Observe the state for the OTA procedure.
 - Once the upgrade process is complete, the “Firmware Updated Successfully” message pops up. The firmware version reflects on the screen. For different image load, the app requests the firmware to reboot in the normal mode and gets disconnected.

```

DE 003D,BOOT,E=00010200,S=05040001,P=0001,H=40,C=01,A=CE337D05235A0000
DE 000E,ASC,S=01,P=0000
CYSPPSP$G=1,E=0000
DE 000E,CYSPPSP$=00000000
DE 000E,ASC,S=00,H=0000
/RBT0000
DE 0000,/RBT,00000000
DE 003D,BOOT,E=00010200,S=05040001,P=0001,H=40,C=04,A=CE337D05235A0000
C=A=33837FB1A7,T=1000
DE 000D,/C,0000,C=0000
DE 0035,C,C=00,A=D3837FB1A7,T=01,I=0000,L=0000,O=01P4,B=0000
DE 0029,DR,C=00,H=0012,H=0000,I=2000,P=01,U=00280000
DE 0010,RPC,C=00,H=00000000
DE 0045,DR,C=00,H=0014,H=0000,I=0000,P=00,U=01010C2000087A7EE2111501
DE 0029,DR,C=00,H=0015,H=0000,I=2902,P=00,U=02220000
DE 0045,DR,C=00,H=0017,H=0000,I=0000,P=00,U=02010C2000087A7EE2111501
DE 0029,DR,C=00,H=0018,H=0000,I=2902,P=00,U=02220000
DE 0045,DR,C=00,H=0019,H=0000,I=0000,P=00,U=01010C2000087A7EE2111501
DE 0029,DR,C=00,H=001B,H=0000,I=2902,P=00,U=02220000
DE 0010,RPC,C=00,H=00000000
DE 000E,CYSPP,S=2100
DE 000E,CYSPP,S=3100
He11o,Central000
He11o,Central000
He11o,Central000
He11o,Central000
He11o,Central000
He11o,Central000
He11o,Central000
He11o,Central000
He11o,Central000
He11o,Central000

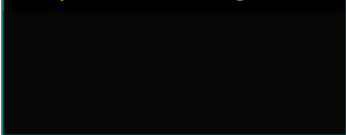
```

1 Serial Port CENTRAL DEVICE

```

DE 003D,BOOT,E=00010200,S=05040001,P=0001,H=40,C=01,A=D3837FB1A70000
CYSPPSP$G=0,E=2000
DE 000E,CYSPPSP$=00000000
DE 0035,C,C=00,A=CE337D05235A,T=01,I=0000,L=0000,O=01P4,B=0000
DE 000E,CYSPP,S=2100
DE 000E,CYSPP,S=3500
He11o,Peripheral000
He11o,Peripheral000
He11o,Peripheral000
He11o,Peripheral000
He11o,Peripheral000
He11o,Peripheral000
He11o,Peripheral000
He11o,Peripheral000
He11o,Peripheral000
He11o,Peripheral000

```

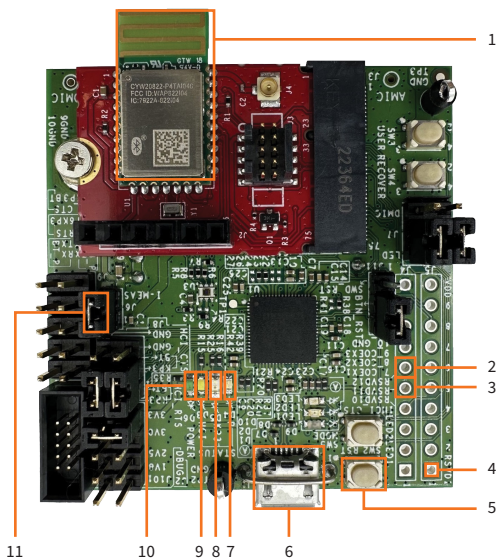


2 Serial Port PERIPHERAL DEVICE

Run the 'CYSPP' demo Peripheral device connection

1. Connect one CYW920822M2P4TAI040-EVK board to the PC via the USB cable as the Peripheral device.
2. Connect the two serial ports @ 115200, 8, N, 1. Press SW2 to reset the device and the primary serial port will output the following BOOT message: @E,003B,BOOT,E=FIRMWARE VERSION, S=SDK VERSION, P=PROTOCOL VERSION,H=HARDWARE ID,C=BOOT CAUSE, A=DEVICE ADDRESS
3. Input .CYSPPSP\$,G=0,E=2 with CR/LF to the primary serial port of the Peripheral device. Central device connection
4. Connect one CYW920822M2P4TAI040-EVK board to the PC via the USB cable as the Central device.
5. Connect the two serial ports with 115200, 8, N, 1. Press SW2 to reset the device and the primary serial port will output the following BOOT message: @E,003B,BOOT,E=FIRMWARE VERSION, S=SDK VERSION, P=PROTOCOL VERSION,H=HARDWARE ID,C=BOOT CAUSE, A=DEVICE ADDRESS
6. Input .CYSPPSP\$,G=1,E=1 with CR/LF to the primary serial port of the Central device.
7. Input /RBT with CR/LF to the primary serial port to reboot the Central device. CYSPP connection.
8. Input /C,A=PERIPHERAL DEVICE ADDRESS,T=1 with CR/LF to the primary serial port of the Central device to connect the Central device to the Peripheral device.
9. Wait for the connection success event CYSPP,S=25 on the primary serial port of the Peripheral device.
10. After the CYSPP connection is established, the data input from the primary serial port of one device is transferred to the primary serial port of the other device.

CYW920822M2P4TAI040-EVK Evaluation Kit



- | | |
|------------------------------------|-------------------------------------|
| 1. CYW20822-P4TAI040 | 6. USB connector for USB-UART (J1) |
| 2. EZ-Serial CYSPP pin (J4.6) | 7. Secondary UART status LED (D4) |
| 3. EZ-Serial LP_MODE pin (J4.5) | 8. KitProg3 status LED (D5) |
| 4. EZ-Serial CONNECTION pin (J5.1) | 9. Primary UART status LED (D3) |
| 5. Reset button (SW2) | 10. Baseboard power status LED (D6) |
| | 11. Current measurement jumper (J6) |

Mouser Electronics

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