# EZ-BT™ MODULE ARDUINO EVALUATION BOARD CYBT-213043-EVAL

The EZ-BT™ Module Arduino Evaluation Board (CYBT-213043-EVAL) enables you to evaluate and develop applications on the EZ-BT WICED® Module, CYBT-213043-02. CYBT-213043-EVAL can be used as a standalone evaluation kit or can be combined with Arduino-compatible shields.
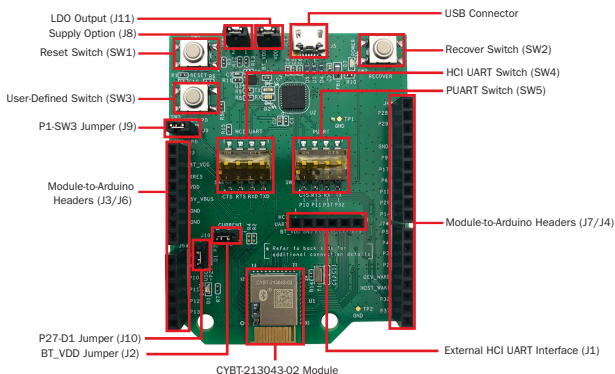
The CYBT-213043-02 WICED Module is a fully integrated, fully certified, programmable, Bluetooth® Smart Ready module designed to reduce your time-to-market. It measures 12.0 mm x 16.61 mm x 1.70 mm.

For more information, visit:

www.cypress.com/bluetooth_modules - EZ-BT Module home page
www.cypress.com/EZ-Serial - EZ-Serial Firmware Platform page
www.cypress.com/Modus - ModusToolbox page
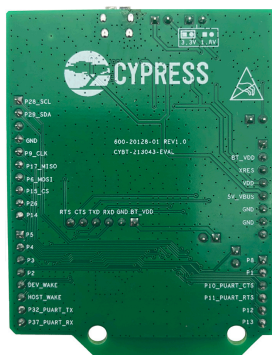


**Figure 1: CYBT-213043-EVAL Top View**

To use CYBT-213043-EVAL:

1) Configure the evaluation board headers/switches to the desired settings.

2) Connect the evaluation board to a PC via a USB cable.

3) Open the ModusToolbox, develop your application, program and test.

**Note:** Recover the CYBT-213043-EVAL before programming. The Arduino-compatible headers (J3/J4/J6/J7) are optional connections, which provide additional I/O connections to the module and allow for other Arduino shields to be used during development.

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**Figure 2: CYBT-213043-EVAL Bottom View**

SW1: Reset Switch routed to the XRES connection on the module.

SW2: Recover Switch routed to the UART_CTS connection on the module.

SW3: User-defined switch routed to the P1 connection on the module via J9.

SW4: Switch connecting HCI UART connections on the module to the host via USB.

SW5: Switch connecting PUART connections on the module to the host via USB.

J1: Connection for external interface for direct HCI UART communication.

J2: To measure module power supply current.

J3/J4/J6/J7: Arduino-compatible headers used with an Arduino-compatible shield.

J8: Configures the VDD voltage input to the module as shown in the below table:

| J8 Jumper Configuration | VDD Voltage Level |
|---|---|
| Short 1 & 2 | 3.3V |
| Open 1 & 2 | 1.8V |

J9: Connects the P1 pad on the module to SW3.

J10: Connects the P27 pad on the module to LED D1.

J11: Module Power Supply Selection from LDO or external connector.

The EZ-BT CYBT-213043-02 Module supports Bluetooth SIG Mesh, is qualified for the Bluetooth 5.0 specification and is certified for the 2.4-GHz unlicensed frequency range in USA (FCC), Canada (ISED), Europe (CE) and Japan (MIC).

Visit www.cypress.com/support for technical support.