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# EZ-BT™ ARDUINO MODULE EVALUATION BOARD

## CYBT-223058-EVAL



The EZ-BT™ Arduino Module Evaluation Board (CYBT-223058-EVAL) enables you to evaluate and develop applications on the CYBT-223058-02 EZ-BT WICED® Module. CYBT-223058-EVAL can be used as a standalone evaluation kit or can be combined with Arduino-compatible shields.

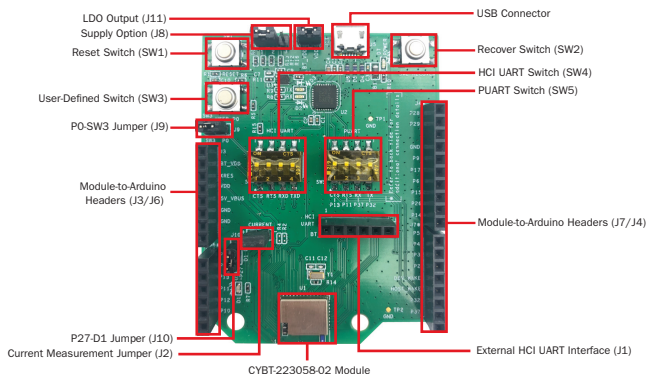
The CYBT-223058-02 WICED Module is a fully integrated, fully certified, 11.0 mm x 11.0 mm x 1.70 mm, programmable, Bluetooth® Smart Ready module designed to reduce your time-to-market.

For more information, visit:

[www.cypress.com/bluetooth\\_modules](http://www.cypress.com/bluetooth_modules) - EZ-BT Module home page

[www.cypress.com/EZ-Serial](http://www.cypress.com/EZ-Serial) - EZ-Serial Firmware Platform page

[www.cypress.com/Modus](http://www.cypress.com/Modus) - ModusToolbox page



**Figure 1: CYBT-223058-EVAL Top View**

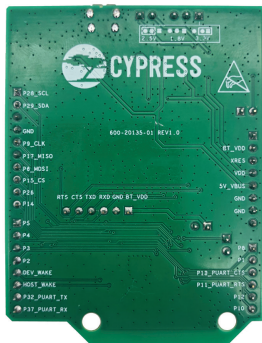
To use the CYBT-223058-EVAL:

- 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 ModusToolbox, develop your application, program, and test

**Note:** Recover CYBT-223058-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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## CYBT-223058-EVAL



**Figure 2: CYBT-223058-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 P0 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: Used to measure the 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 table below:

J8 Jumper Configuration	VDD Voltage Level
Short 1 & 2	3.0 V
Short 2 & 3	2.6 V
Open	1.8 V

J9: Connects the P0 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-223058-02 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](http://www.cypress.com/support) for technical support.

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