EZ-BLE™ MODULE ARDUINO EVALUATION BOARD CYBLE-013025-EVAL

The EZ-BLE Module Arduino Evaluation Board (CYBLE-013025-EVAL) enables you to evaluate and develop applications on the CYBLE-0130XX-00 WICED Modules (CYBLE-013025-00 and CYBLE-013030-00). CYBLE-013025-EVAL can be used as a standalone evaluation kit or can be combined with Arduino compatible shields.
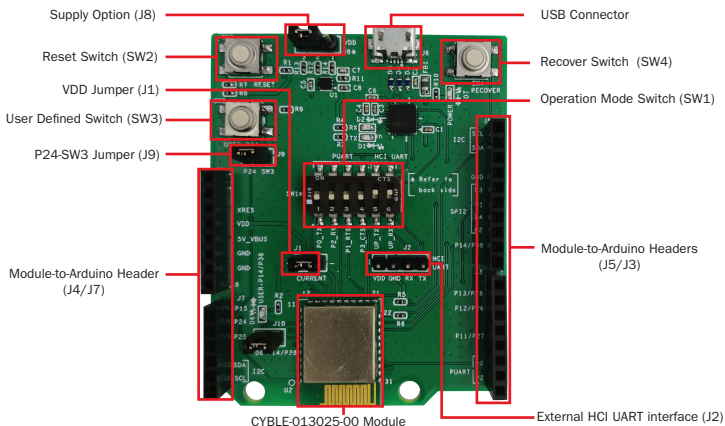
The CYBLE-0130XX-00 WICED Modules are fully integrated, fully certified,14.5 mm x 19.2 mm x 2.25 mm, programmable, Bluetooth® Smart modules designed to reduce your time-to-market.

For more information, visit:
www.cypress.com/EZ-BLEModule - EZ-BLE Module home pages
www.cypress.com/EZ-Serial - EZ-Serial BLE Firmware Platform page
www.cypress.com/WICED - WICED Platform page

Figure 1: CYBLE-013025-EVAL Top View
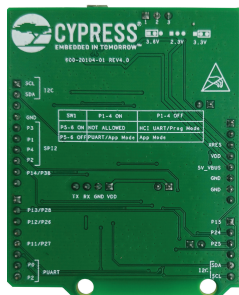
To use the CYBLE-013025-EVAL,

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 WICED Smart SDK, develop your application, program and test

The Arduino compatible headers (J3/J4/J5/J7) are optional connections, which provide additional I/O connections to the module, and allows for Arduino Compatible shields to be used during development.

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Figure 2: CYBLE-013025-EVAL Bottom View

SW1: Jumper configuration for UART connections as shown in the below table:

SW1 Position	Position 1/2/3/4 = ON	Position 1/2/3/4 = OFF
Position 5 and 6 = ON	**Do Not Use** (HCI and PUART compete)	**HCI mode** Reprogramming or testing
Position 5 and 6 = OFF	**PUART Application Mode** PUART connected to host	**General Application Mode** PUART disconnected from host

SW2: Reset Switch routed to the XRES connection on the module.

SW3: User-defined Switch routed to the P24 connection on the module.

SW4: Recover Switch routed to the SDA connection on the module.

J1: Used for power supply current measurement.

J2: Connection for external interface for direct HCI UART communication.

J3/J4/J5/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	3.6V
Short 2 & 3	3.3V
No Jumper	2.3V

J9: Connects the P24 pad on the module to SW3.

J10: Connects the P14/38 pad on the module to LED D6.

The CYBLE-0130XX-00 WICED Modules are qualified for the Bluetooth 4.1 specification and are certified for the 2.4 GHz unlicensed frequency range in USA (FCC), Canada (ISED), Europe (CE) and Japan (MIC).

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