Please note that Cypress is an Infineon Technologies Company.

The document following this cover page is marked as "Cypress" document as this is the company that originally developed the product. Please note that Infineon will continue to offer the product to new and existing customers as part of the Infineon product portfolio.

Continuity of document content

The fact that Infineon offers the following product as part of the Infineon product portfolio does not lead to any changes to this document. Future revisions will occur when appropriate, and any changes will be set out on the document history page.

Continuity of ordering part numbers

Infineon continues to support existing part numbers. Please continue to use the ordering part numbers listed in the datasheet for ordering.

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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.
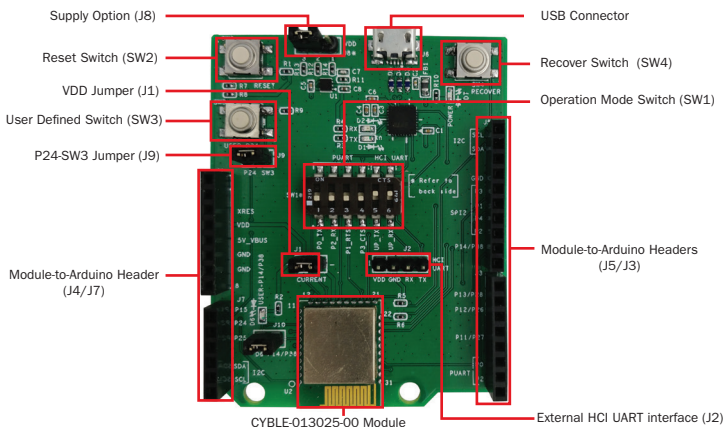
The CYBLE-0130XX-00 WICED Modules are fully integrated, fully certified, 14.5 mm x 19.2 mm x 2.25 mm, programmable, Bluetooth® Smart modules designed to reduce your time-to-market.

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
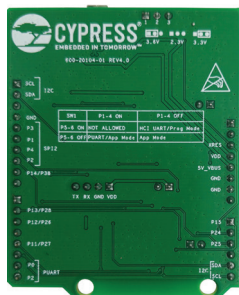

Figure 1: CYBLE-013025-EVAL Top View

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.

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

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/P38 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).

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