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EZ-BT™ MODULE ARDUINO EVALUATION BOARD CYBT-343026-EVAL

The EZ-BT Module Arduino Evaluation Board (CYBT-343026-EVAL) enables you to evaluate and develop applications on the EZ-BT WICED Module, CYBT-343026-01. CYBT-343026-EVAL can be used as a standalone evaluation kit or can be combined with Arduino compatible shields.

The CYBT-343026-01 WICED Module is a fully integrated, fully certified, 12.0 mm x 15.5 mm x 1.95 mm, programmable, Bluetooth® Smart Ready module 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 Bluetooth Firmware Platform page
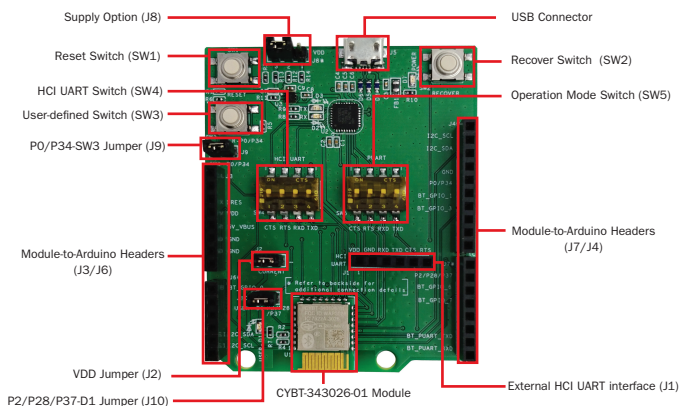www.cypress.com/WICED - WICED Platform page

Figure 1: CYBT-343026-EVAL Top View

To use the CYBT-343026-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) Refer to KBA221025 for platform files, Makefile target generation, and HCI UART switch position setting for programming
4) Open the WICED Studio IDE, develop your application, program and test

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.

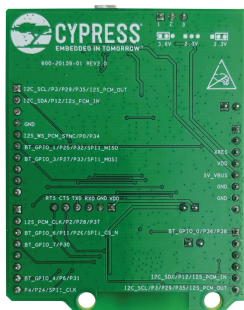# EZ-BT™ MODULE ARDUINO EVALUATION BOARD CYBT-343026-EVAL

Figure 2: CYBT-343026-EVAL Bottom View

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

SW2: Recover Switch routed to the SPI2_MOSI connection on the module.

SW3: User-defined Switch routed to the P0/P34 connection on the module via J9.

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

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

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

J2: Used for power supply current measurement.

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	3.6V
Short 2 & 3	3.3V
No Jumper	2.3V

J9: Connects the P0/P34 pad on the module to SW3.

J10: Connects the P2/P28/P37 pad on the module to LED D1.

The EZ-BT WICED Module is qualified for the Bluetooth 5 specification and is certified for the 2.4 GHz unlicenced frequency range in USA (FCC), Canada (ISED), Europe (CE) and Japan (MIC).

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