

# EZ-BLE™ PRoC™ EVALUATION BOARD

## CYBLE-012011-EVAL



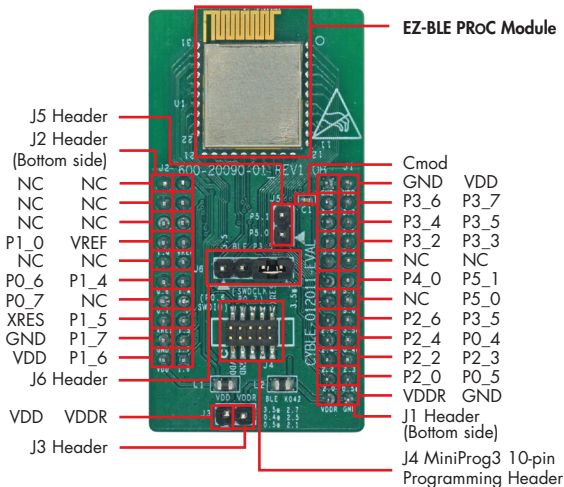
The EZ-BLE™ PRoC™ Evaluation Board (CYBLE-012011-EVAL) enables you to evaluate and develop applications on the EZ-BLE PRoC Modules (CYBLE-012011-00 and CYBLE-012012-10). The EZ-BLE PRoC Module is a fully-integrated, fully-certified, 14.5 mm x 19.2 mm x 2.0 mm, programmable, Bluetooth® Smart module designed to reduce your time-to-market.

For more information, visit:

[www.cypress.com/EZ-BLEModule](http://www.cypress.com/EZ-BLEModule) - EZ-BLE Module home page

[www.cypress.com/EZ-BLEEval](http://www.cypress.com/EZ-BLEEval) - EZ-BLE PRoC Evaluation Board kit page

[www.cypress.com/go/AN96841](http://www.cypress.com/go/AN96841) - Getting started guide



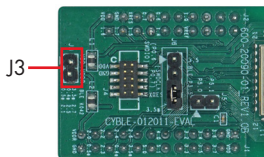
**Fig 1: CYBLE-012011-EVAL Pinout Description**

Note: To use the CYBLE-012011-EVAL board, you must separately purchase either the CY8CKIT-002 MINIPROG3 or the CY8CKIT-042-BLE BLE PIONEER KIT.

# EZ-BLE™ PROc™ EVALUATION BOARD

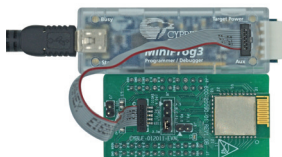
**1:** Connect the CYBLE-012011-EVAL to the CY8CKIT-002 (MiniProg3)

Connect a jumper on the J3 header



**Fig 2: J3 Header**

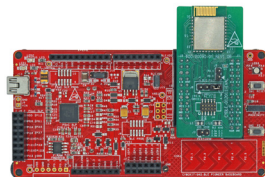
Connect the MiniProg3 to the J4 10-pin header



**Fig 3: Programming/Debugging with MiniProg3**

**OR** Plug the CYBLE-012011-EVAL on the CY8CKIT-042-BLE baseboard.

Note: Jumper on CYBLE-012011-EVAL's J3 header can be connected or disconnected.



**Fig 4: Programming and debugging with CY8CKIT-042-BLE BLE Pioneer Kit Baseboard**

Pin Mapping between CY8CKIT-042-BLE (Base) and CYBLE-012011-EVAL (Eval)

| (Base)      | (Eval) | (Base) | (Eval) | (Base) | (Eval) | (Base) | (Eval) |
|-------------|--------|--------|--------|--------|--------|--------|--------|
| GND         | GND    | P1_4   | P1_4   | P2_4   | P2_4   | P3_6   | P3_6   |
| VDDD, VDDDA | VDD    | P1_5   | P1_5   | P2_5   | P0_4   | P3_7   | P3_7   |
| VDDR        | VDDR   | P1_6   | P1_6   | P2_6   | P2_6   | P4_0   | P4_0   |
| XRES        | XRES   | P1_7   | P1_7   | P2_7   | P3_5   | P5_0   | P5_0   |
| VREF        | VREF   | P2_0   | P2_0   | P3_2   | P3_2   | P5_1   | P5_1   |
| PO_6        | PO_6   | P2_1   | P0_5   | P3_3   | P3_3   |        |        |
| PO_7        | PO_7   | P2_2   | P2_2   | P3_4   | P3_4   |        |        |
| P1_0        | P1_0   | P2_3   | P2_3   | P3_5   | P3_5   |        |        |

**2:** Create a project using the CYBLE-012011-00/CYBLE-012012-10 MPN and program /debug using PSoC® Creator™ 3.3 SP1

The EZ-BLE PROc Module (CYBLE-012011-00) is qualified for the Bluetooth 4.1 specification and is certified for the 2.4 GHz unlicensed frequency range in USA (FCC), Canada (IC) and Europe (CE).

Visit [www.cypress.com/go/support](http://www.cypress.com/go/support) for technical support.