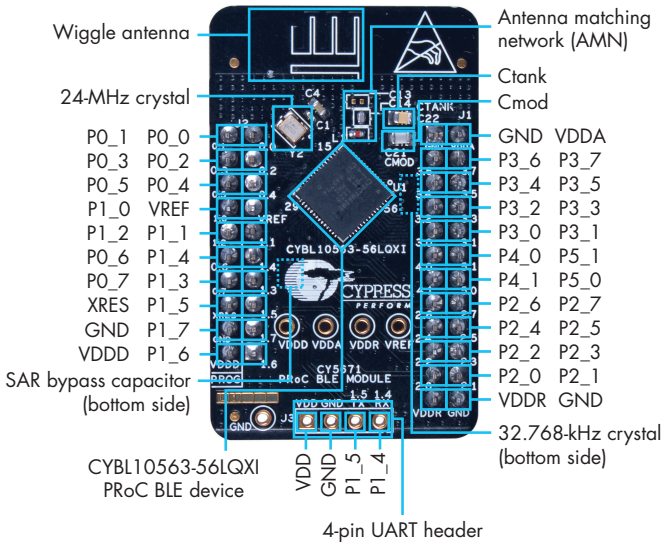# CY5671 PRoC™ BLE MODULE

CY5671 PRoC™ BLE Module is a complete, certified solution to add BLE connectivity to any embedded system. The module features a PRoC BLE device (CYBL10563), two crystals, a PCB antenna, and other passives while providing access to all GPIOs of the device.

Visit www.cypress.com/BLE for more information on Cypress's BLE solutions.

PRoC BLE is a single-chip solution with a 48-MHz ARM® Cortex®-M0 CPU, BLE radio, CapSense® technology for touch sensing, two serial communication blocks (SCBs), a 12-bit ADC, four Timer/Counter/PWMs (TCPWMs), four additional PWMs, I2S, and LCD.

Fig-1: Pinout Description for PRoC BLE Module

Note: To apply power to the module, use the VDD pin (1.9 V - 5.0 V) and GND pin.

CY5671 PROC™ BLE MODULE

STANDALONE USE WITH PSOC CREATOR™ IDE AND CY8CKIT-002 MINIPROG3

Pin Mapping	
CY8CKIT-002	CY8CKIT-142
VTARG	VDD
GND	GND
RES	XRES
SCLK	P0_7
SDAT	P0_6

Fig-2: Programming and Debugging with CY8CKIT-002

USING THE PROC BLE MODULE WITH THE CY8CKIT-042-BLE PIONEER KIT

Step 1: Plug the module on the CY8CKIT-042-BLE Pioneer Kit baseboard.

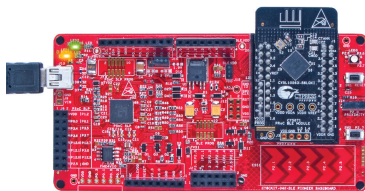**Step 2:** Create your design in PSoC Creator IDE and use the BLE Pioneer Kit to program and debug.

Fig-3: Programming and Debugging with CY8CKIT-042 BLE Pioneer Baseboard

CY5671 is qualified for Bluetooth 4.1 specifications. The module, along with the CY8CKIT-042 BLE Pioneer Baseboard, has regulatory approval (for development purpose only) for the 2.4-GHz unlicensed frequency range in countries including USA (FCC), Canada (IC), Europe (CE) and Japan (JRF/TELEC).

Additional regulatory certification will be required to integrate the module into an end product. Contact support@cypress.com for details.

For more information about this kit, visit www.cypress.com/CY5671

CY5671
Manufactured by Cypress Semiconductor.
® 005-100920

Contains Model: CY5671
FCC ID: WAP-CY5671
IC: 7922A-CY5671

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