



THIS SPEC IS OBSOLETE

Spec No: 001-97334

Spec Title: CY5676A PROC(TM) BLE 256KB MODULE

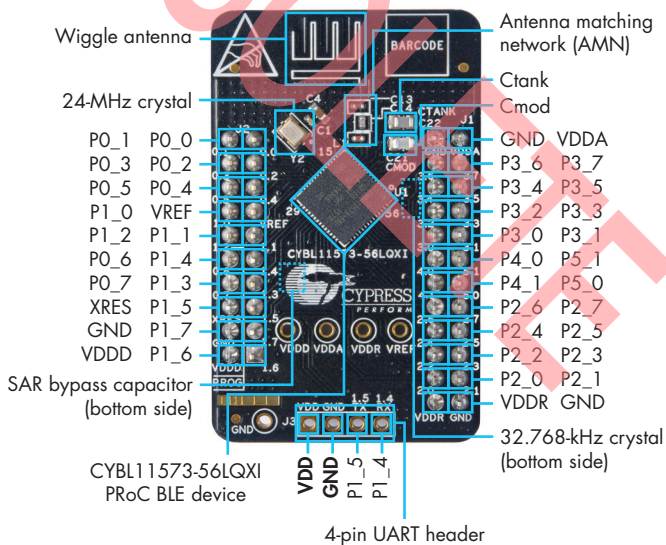
Replaced by: NONE

# CY5676A PRoC™ BLE 256KB MODULE

CY5676A PRoC™ BLE 256KB Module is a complete solution to add BLE connectivity to any embedded system with Bluetooth® 4.2 features. The module features a PRoC BLE device (CYBL11573-56LQXI), 24-MHz and 32.768-kHz crystals, a PCB antenna, and other passives while providing access to all GPIOs of the device.

For more information on Cypress's BLE solutions visit [www.cypress.com/BLE](http://www.cypress.com/BLE)

PRoC BLE is a single-chip solution with a 48-MHz ARM® Cortex®-M0 CPU, Bluetooth 4.2 radio, CapSense® technology for touch-sensing, two serial communication blocks (SCBs), a 12-bit ADC, four Timer/Counter/PWMs, four additional PWMs, I<sup>2</sup>S for digital audio, and segment LCD direct-drive capability.



**Fig-1: Pinout Description for CY5676A**

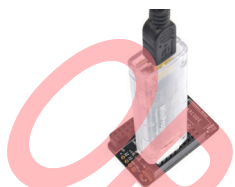
Note: To apply power to the module, apply 1.9 V - 5.0 V to any of the VDD pins (VDD, VDDD, VDDA, or VDDR) and 0 V to any GND pin

# CY5676A ProC™ BLE 256KB MODULE

## STANDALONE USE WITH PSoC CREATOR™ IDE AND CY8CKIT-002 MINIPROG3

**Step 1:** Select the 5-pin connector setting in PSoC Creator or PSoC Programmer.

**Step 2:** Use 0.1" male headers (not included) or jumper wires to connect the MiniProg3 to the module.



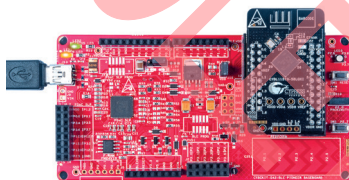
Pin Mapping	
CY8CKIT-002	CY5676A
VTARG	VDDD
GND	GND
RES	XRES
SCLK	PO_7
SDAT	PO_6

**Fig-2: Programming and Debugging with CY8CKIT-002 MiniProg3**

## 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**

The CY5676A module is intended for development purposes only. Users are advised to test and evaluate this module in an RF development environment. This module is not a finished product and when assembled may not be resold or otherwise marketed unless all required authorizations are first obtained.

Contact [support@cypress.com](mailto:support@cypress.com) for details.

For more information about this kit, visit [www.cypress.com/CY5676A](http://www.cypress.com/CY5676A)

