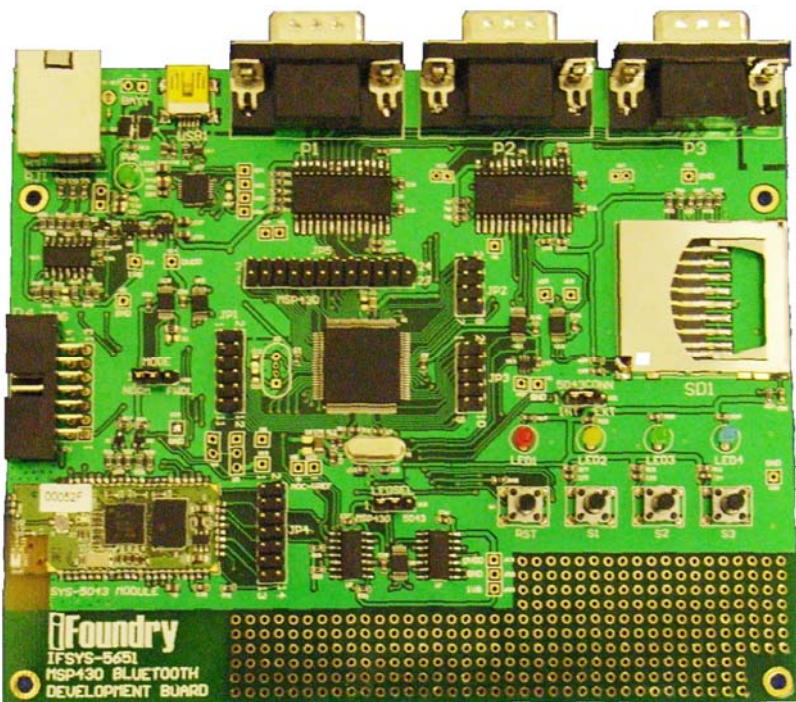# iFoundry

IFSYS-5651 MSP430 Bluetooth Evaluation Kit

Product Brief

The IFSYS-5651 MSP430 Bluetooth Evaluation Kit is a Development Platform for the Texas Instruments MSP430F54xx series microcontroller, and iFoundry's IFSYS-5043 Bluetooth HCI Module. This platform is intended for software developers and product designers who would like to evaluate the MSP430F54xx microcontroller, especially for Bluetooth related applications. Developers can also use the platform to evaluate iFoundry's IFSYS-5043 Bluetooth module in stand-alone (non-hosted) mode, as an HCI module. As an HCI module, the IFSYS-5043 can be flexibly controlled by an external host such as a PC, or by the built-in MSP430 microcontroller through its UART interface.

The IFSYS-5043 Bluetooth® HCI Module is a complete Class 2 *Bluetooth* module incorporating an antenna, on-board oscillators, a UART interface for communication to a host processor and a PCM interface for attaching an external codec. IFSYS-5043 is based on the CSR BC03 Multimedia External single chip *Bluetooth* solution.

Key features

➢ Low power Texas Instruments MSP430F54xx series microcontroller

➢ Built-in pre-certified IFSYS-5043 Bluetooth module (Bluetooth® V2.0 compliant and FCC certified)

➢ Development platform is USB powered

➢ Use as a development platform for embedded controller product or Bluetooth applications

Bluetooth™

IFSYS-5651 MSP430 Bluetooth Evaluation Kit

Product Brief

SPECIFICATIONS

Hardware Features
- ☐ TI MSP430F5438 processor running at 18MHz
- ☐ IFSYS-5043 Bluetooth module (based on CSR BC03 radio)

Interfaces
- ☐ UART x 4 – 3 x DB9, 1 x USB-to-serial
- ☐ SD Memory card interface
- ☐ 3 general purpose buttons
- ☐ 4 general purpose LEDs
- ☐ Headers of unused MSP430 and IFSYS-5043 signals, for custom development
- ☐ JTAG interface (compatible with industry standard JTAG debuggers)

Electrical specifications
- ☐ Temperature: Operational: 0°C to +70°C, Storage: -20°C to +85°C
- ☐ Power supply & voltage levels:
  - ▪ IFSYS-5651 is powered via the USB port

Applications
- ☐ Embedded applications with very low power requirements
- ☐ Wireless (Bluetooth) data exchange applications
- ☐ Health/Medical products

Certifications/Compliance (IFSYS-5043)
- ☐ *Bluetooth* V2.0 Specification compliant (QD ID: B012734)
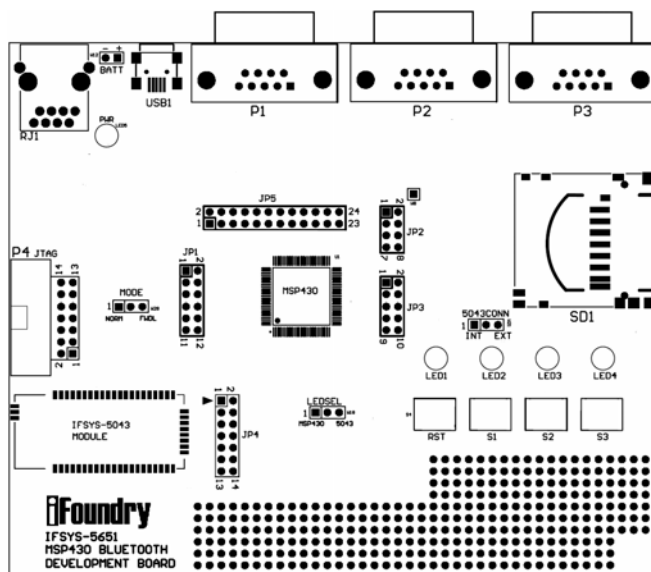- ☐ FCC certified (FCC ID: VBR5043)
- ☐ RoHS

Dimensions (IFSYS-5651 board)
- ☐ 123mm (L) x 140mm (W) x 15mm (H)
- ☐ Weight: approx. 100g

Dimensions (Boxed)
- ☐ 140mm (L) x 175mm (W) x 50mm (H)
- ☐ Weight: approx. 255g

Board Diagram

Ordering Information

Order Number	Order Description
IFSYS-5651:1101	IFSYS-5651 MSP430 Bluetooth Evaluation Kit

Texas Instruments and MSP430 are registered trademarks of Texas Instruments, Inc
CSR and BC03 are registered trademarks of Cambridge Silicon Radio Plc

iFoundry Systems Singapore
Unit 03-20
67 Ayer Rajah Crescent
Singapore 139950

For more information:
Email: sales@ifoundrysys.com
Web: www.ifoundrysys.com

www.ifoundrysys.com