CC256x-PAN13xx Bluetooth® Kits Summary

1 PAN1323EMK – *Bluetooth* Evaluation Kit for MSP430BT5190 - This kit is an upgrade to PAN1315EMK (no longer available)

The PAN1323 Evaluation Module Kit (kit) is a highly versatile, advanced TI Bluetooth® development tool. The kit, when coupled with 2 MSP430F5438A Experimenter boards, enables early software and hardware prototyping capabilities for wireless embedded applications.

The PAN1323EMK user guide is located on our wiki – click here

Users may download the *Bluetooth* software named MSP430+CC2560 Software Development Kit (SDK) which includes Mindtree's Ethermind *Bluetooth* stack, serial port profile (SPP) and embedded sample applications running on Free RTOS. Click here for Software Download. One of the sample applications uses the accelerometer on the Experimenter board to remotely control a PC based game. The SDK also includes sample applications for transmitting temperature readings between *Bluetooth* devices and displaying RF link quality parameters on the Experimenter board LCD. The combination of sample applications in source format and the peripheral rich Experimenter board makes this platform a versatile tool for extensive prototyping and easy development of applications that want to use *Bluetooth* connectivity.

This kit is an upgraded version of the PAN1315EMK. The PAN1323 ETUs will be used for evaluation of different software configurations as they become available. Possible combinations are *Bluetooth* classis, *Bluetooth* + ANT+ (separate kit available), and in the future *Bluetooth* + BLE. The PAN1323 that comes with the kit is for evaluation only. For production, customers will need to use the Panasonic PAN1315, PAN1325, PAN1317 or PAN1327 modules.

For more details please visit our wiki
http://processors.wiki.ti.com/index.php/CC2560_Bluetooth_for_MSP430

2 EZ430-RF256x – All in One *Bluetooth* Evaluation Kit - This kit is an upgrade to EZ430-RF2560 (no longer available)

The EZ430-RF256x User Guide can be found on our wiki – click here

The eZ430-RF256x is a complete TI *Bluetooth*® evaluation and demonstration tool for the MSP430 and TI's *Bluetooth* that includes all the necessary hardware and software in a convenient USB stick. The tool includes a USB-powered emulator to program and debug your application and two *Bluetooth* target boards featuring the highly integrated MSP430BT5190 ultra-low-power MCU & Panasonic PAN1323 module. The required embedded software comes pre-flashed on the MSP430 device for ease of use out of the box. The tool also comes with a sample PC game that you can play using the target board as a remote controller. Users may download the eZ430-RF256x Software Development Kit (SDK) to develop and instantly demonstrate *Bluetooth* applications using the included battery expansion board and AAA batteries. Click here for Software Download. The eZ430-RF256x SDK includes MindTree's Ethermind *Bluetooth* stack, Serial Port Profile (SPP) and embedded sample applications running on FreeRTOS.

The PAN1323 that comes with the kit is for evaluation only. For production, customers will need to use the Panasonic PAN1315, PAN1325, PAN1317 or PAN1327 modules.

For more information please see the EZ430-RF256x Wiki http://www.ti.com/ez430-rf2560wiki

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3 CC2567-PAN1327ANT-BTKIT – ANT + *Bluetooth* Health and Fitness Aggregator Kit

The CC2567-PAN1327ANT-BTKIT User guide is located on our wiki – click here

TI is offering the first wireless, single-chip solution with dual-mode ANT and *Bluetooth* connectivity - the CC2567 device. This solution wirelessly connects 13 million ANT-based devices to the more than 3 billion *Bluetooth* endpoint devices used by people every day, creating new market opportunities for companies building ANT products and *Bluetooth* products alike. TI dual mode solution requires 80 percent less board area than a design with two single-mode solutions (one ANT+, one *Bluetooth*) and increases the wireless transmission range up to two times the distance of a single-mode ANT+ solution.

The ANT plus *Bluetooth* health and fitness aggregator kit is the first of its kind and offers several features such as:

- Panasonic's PAN1323ETU module – this is for evaluation only and customers will use PAN1327 or PAN1317 module for production
- Validated and certified *Bluetooth* and ANT+ technology with complete documentation for faster development time and lower manufacturing costs. Click here for software download.
- Support for *Bluetooth* power saving modes and ANT's ultra low power modes to improve battery life and power efficiency
- Pre-integration with TI's MSP430BT5190 for faster time to market.

For more details please visit our wiki:
http://processors.wiki.ti.com/index.php/CC2567_Bluetooth_%2B_ANT_for_MSP430

For more information on Texas Instruments Wireless Connectivity, please visit http://www.ti.com/wirelessconnectivity

For further support you can also use our forums – www.ti.com/wiconforum

4 Certifications

For details on the specifications and any associated certifications of the Panasonic modules mentioned in this document, please see Panasonic web site and full specification.

- PAN1323ETU page – click here
- PAN1323ETU full specification – click here

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For FCC-Approved Units
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NOTE: The term "EVK" includes electrical equipment commonly called Evaluation Kits, Evaluation Boards and Evaluation Modules (EVMs)

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Following are URLs where you can obtain information on other Texas Instruments products and application solutions:

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