

Bluetooth® v2.1 + Enhanced Data Rate (EDR) Module

FEATURES

- Fully Qualified *Bluetooth* v2.1 + Enhanced Data Rate (EDR)
- Data Rate up to 2.1 Mbps
- Best-In-Class Bluetooth RF Performance (Tx Power, Rx Sensitivity, Blocking)
- +10 dBm Typical Tx Power with Transmit Power Control
- -93 dBm Typical Receiver Sensitivity
- Support for Bluetooth Power Saving Modes (Sniff, Hold)
- Low Power Scan Method for Page and Inquiry Scans at 1/3rd Normal Power
- Fast Algorithm for Both ACL and eSCO
- Host Controlled Interface (HCI) Supports Three and Four Wire UART Transport with Rates of up to 4Mbps
- Hardware and Software Pre-integration with TI's MSP430™ Ultra Low-Power Microcontroller and Stellaris® ARM Cortex™-M3
- Dimensions: 9 mm x 9.5 mm x 1.8 mm (CC2560-PAN1325, Integrated Antenna); 6.5 mm x 9.5 mm x 1.8 mm (CC2560-PAN1315, Without Antenna)
- Bluetooth, FCC, CE, IC Certified
- Operating Temperature Range: -20°C to 70°C

APPLICATIONS

- Cable Replacement
- Wireless Sensors
- Medical Devices
- Computer Peripherals
- Industrial Control
- Consumer Devices

DESCRIPTION

The following product brief applies to Panasonic's *Bluetooth* module, series number: PAN1325 and PAN1315. The *Bluetooth* chip used is the CC2560 from Texas Instruments.

The CC2560-PAN1325/15 is a highly-integrated class 2 HCI module with increased output power capabilities offered by Panasonic using TI's CC2560 *Bluetooth* 2.1+ EDR Transceiver. Based on TI's 7th generation *Bluetooth* technology, the solution provides best-in-class *Bluetooth* RF performance of +10dBm typical transmit power and -93dBm typical receiver sensitivity. This solution is provided as a module to help customers reduce development time, lower manufacturing costs, save board space, ease certification, and minimize RF expertise required. For evaluation and development, various platforms are available which integrate the CC2560-PAN1325/15 module, *Bluetooth* stack, Profiles (SPP for MSP430, SPP + A2DP for Stellaris), and sample source applications running on a TI host controller (MSP430, Stellaris).

The full specification and purchasing of the CC2560-PAN1325/15 can be found on Panasonic's website (www.panasonic.com/ti). More information on TI's wireless platform solutions can be found on TI's Wireless Connectivity Wiki (www.ti.com/connectivitywiki).

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