

Bluetooth® Module

Low Energy Smart Module

BTM-800

This is a Single-mode Bluetooth 4.0 Low energy module. It is based on CSR1000 chip set which can provide ultra low-power connectivity and basic data transfer for application previously limited by the power consumptions of other wireless standards. With qualified Bluetooth v4.0 stack on board, it can support various kinds of applications such as remote control, gaming, wireless keyboard/mouse, medical sensor, sports, proximity tag,...and so on. Thanks to the new technology of Bluetooth v4.0, it takes less time to make a connection than conventional Bluetooth technology while consume only 5% of the power of Bluetooth Basic Rate. The BTM800 supports profiles for sensors, watches, HID's and time synchronization and providing configurable features that allow the application to differentiate from the other products.

Features

- Bluetooth standard V4.0 conformity.
- Programmable general purpose PIO controller.
- Switch-mode power supply.
- I2C/SPI for EEPROM/flash memory ICs peripherals.
- -92.5dBm Bluetooth low energy RX sensitivity.
- 12 digital PIOs
- 3 analogue AIOs with 10-bit ADC
- Watchdog timer
- Option for built-in G-sensor
- RoHS Compliant
- Small outline. 20(16) x 12 x 2.0mm (option wo/antenna)

Applications

- Sports and fitness
- Healthcare
- Automotive
- Home entertainment
- Office and mobile accessories
- Commercial

Outline

