

Overview

EH-MC10 series is a powerful, highly flexible, ultra-low power Bluetooth smart module base on CSR1010 SoC from Qualcomm(CSR). embedded 2.4GHz multi-protocol transceiver, and an integrated antenna; the EH-MC10 provides a complete RF solution allowing faster time-to-market with reduced development costs. The EH-MC10B adds antenna flexibility with a U.FL connector.

The module offer all Bluetooth low energy features: radio, stack, profiles and application, especially support CSRmesh technology, so no external provides flexible hardware interfaces to connect sensors, simple user interfaces or even displays directly to the module. Carrying FCC, IC and CE certifications and Bluetooth qualification, the EH-MC10Series is ready to implement right away.



Key Features

- Bluetooth 4.1
- +9 dBm Tx output power
- -92.5dBm Rx Sensitivity
- 128KB: 64KB RAM and 64KB ROM
- 50Kbytes of user App space
- 3 x Analogue IO
- 4 x PWM modules
- 1 x 10-bit ADC (shared IOs)
- 10 general purpose I/Os
- SPI for external Flash and debug
- Certification: BQB/FCC/CE/IC/RoHs
- Size: 17.7*11.95*1.6mm

Bluetooth Smart Features

- Master or Slave mode operation Including Encryption
- Channel Map Updates
- Connection Updates
- Broadcast DataGAP
- High-speed passthrough protocol
- Security Manager
- Tracking Protocol
- Attribute Profile
- I2C for EEPROM/external companion chips
- CSRmesh
- Wechat Connected