

EH-MC12 Bluetooth low energy single mode module is a single mode device targeted for low power sensors and accessories. The module offer all Bluetooth low energy features: radio, stack, profiles and application, so no external provides flexible hardware interfaces to connect sensors, simple user interfaces or even displays directly to the module.



The latest SDK supports CSR mesh function, to be self-network, and then achieve more than 65,000 nodes control. In additional, the module also supports master and slave mode, bypass transmit, Wechat communication protocol.



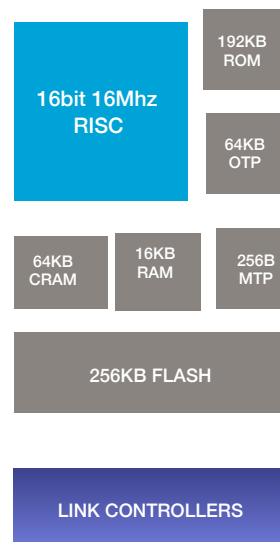
CSRmesh™ 2.1

Mainly it's used in intelligent hardware, medical equipment, industrial control, Beacon and so on.

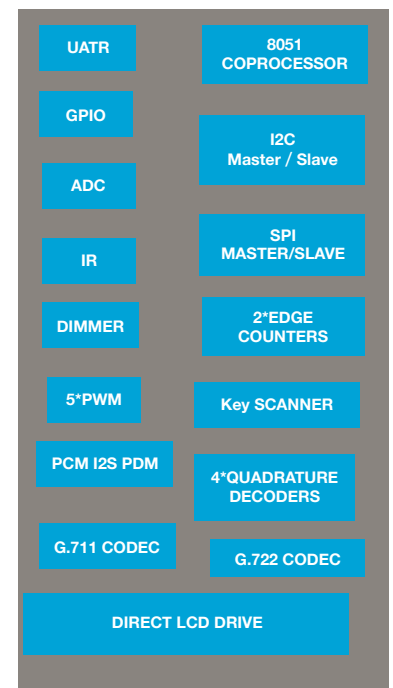
Key Features

- ☀ Bluetooth Ver 4.2
- ☀ +4 dBm max RF transmit power
- ☀ -92dBm receiver sensitivity
- ☀ MCU: 16位 16Mhz RISC embedded CPU
- ☀ Consumption: <5mA (at 3V,+0dBm)
- ☀ 256KB integrated Flash
- ☀ I²C, UART, SPI/Q-SPI, PDM, I²S
- ☀ 1x analogue I/O(10bit ADC)
- ☀ 5 x PWM blocks
- ☀ 1 x 10-bit ADC
- ☀ 10bit ADC, G722 and G711audio codec
- ☀ Debug SPI interface for programming
- ☀ Certification :FCC/CE/IC/RoHs
- ☀ Size: 17.7*11.95*1.6mm

Block Diagram



Peripherals



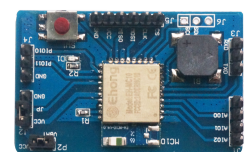
Software Features

- ☀ BLE(Master and Slave)
- ☀ Support CSRmesh/Beacon/Wechat
- ☀ Support OTA
- ☀ Low energy Serial transmit profile
- ☀ Smart voice control

Development Kit



LOT Development Kit (mesh)



Professional Kit