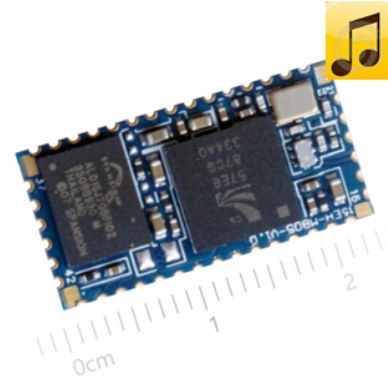


EH-MB05

Bluetooth® Audio Module

EH-MB05 is a class 2 Bluetooth® 2.1+EDR (Enhanced Data Rate) module. It is based on CSR's BlueCore5 Multimedia. With internal DSP and audio codec, it provides a fully compliant Bluetooth V2.1+EDR specification for data and voice.

With ehlink@ AT command stack through UART, designers can easily customize their applications to support different Bluetooth profiles.



Module Key Features

Mechanical Data

- Dimensions: 23.6*11.9*2.05mm
- Weight: 0.9g

Radio Features

- Fully embedded Bluetooth® v2.1+EDR
- Class2 module
- TX power +4dbm,-86dbm RX sensitivity
- Range up to 15m
- External antenna
- Multipoint capability(7 transmit data devices connected at the same time)

User interface

- Send AT command over UART
- Firmware upgrade over USB
- With SPP service active: 560kbps transmission speed (UART)
- PCM interface (I2S, SPDIF)
- I2C interface(Master)
- 11 general purpose I/Os
- 2 analogue I/O

Support profiles

- SPP (Master and slave)
- iAP (ipod accessory protocol)
- HFP ,A2DP,AVRCP,HID(Slave)
- HID (Slave)

Audio features

- Integrated DSP
- 16-bit stereo codec
- Analog,I2S,PCM and Microphone
- Optional Aptx@ and ACC stereo audio codecs
- Optional CVC@ echo cancellation
- Wide band speech

Electrical data

- Power supply(VCC): 3~3.6V
- Standby, with deep sleep: 0.11mA
- Connected with audio streaming: 35mA
- Connected(Deep sleep on): 0.4mA
- Operating temperature range: -40 °C to 85 °C

Qualification

- Bluetooth BQB
- FCC、CE、RoHs

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