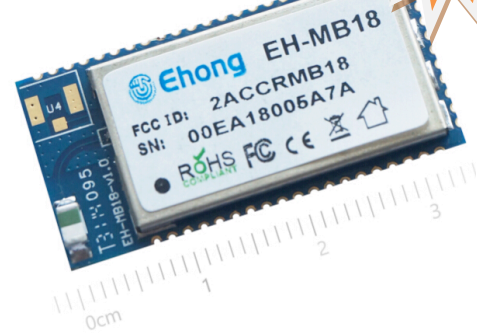


EH-MB18

Bluetooth® Double Module



The EH-MB18 is double Bluetooth module, compliant with Bluetooth3.0 and Bluetooth v4.0. The module provides complete RF platform in a small form factor. The module enables electronic devices with wireless connectivity, not requiring any RF experience or expertise for integration into the final product. The module being a certified solution optimizes the time to market of the final application.



Module Key Features

Mechanical Data

- Dimensions: 30.4*15.26*2.4mm
- Weight: 1.2g

Radio Features

- Fully embedded Bluetooth® v4.0(Smart ready)
- Bluetooth® v3.0 specification compliant
- TX power +8dbm,-90dbm RX sensitivity
- 128-bit encryption security
- Range up to 15m
- Internal chip antenna or U.fl port
- 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),SPI

Support profiles

- SPP (Master and slave), iAP (ipod accessory protocol)
- BLE(GATT Profile)
- HFP ,A2DP,AVRCP,HID(Salve)

Audio features

- optional support for 64Mb of external SPI flash 16Mb internal flash memory (64-bit wide, 45ns)
- 80MHz RISC MCU and 80MIPS Kalimba DSP
- Support for CSR's latest CVC technology for narrow-band and wideband voice connections including wind noise reduction
- Support Apt-X ,AAC, Apt-XLL,SBC codec

General I/O

- 13 eneral purpose I/Os
- 2 analogue I/O
- Support for up to 3 capacitive touch sensor inputs
- Three fully configurable LED drivers

Electrical data

- Power supply(VCC): 3~3.6V
- Standby, with deep sleep: 0.11mA
- Connected with audio streaming: 35mA
- Connected(Deep sleep on): 0.5uA
- Operating temperature range: -40 °C to 85 °C

Qualification

- Bluetooth BQB
- FCC、CE、RoHs

Remark: Ehong IOS APP download:

<https://itunes.apple.com/cn/app/ehong-link/id854886208?mt=8>.



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