

# EH-MA41

## Bluetooth® Transmit Data Module

EH-MA41 is a class II Bluetooth® 2.1+EDR (Enhanced Data Rates) module. It is a highly integrated and sophisticated module which contains all the necessary elements from radio to antenna and a fully implemented protocol stack. It is an ideal solution for integrating Bluetooth® into various products with limited knowledge of Bluetooth® and RF technologies.



## Module Key Features

### Mechanical Data

- Dimensions: 25\*13.4\*2.2mm
- Weight: 2g

### Radio Features

- Fully embedded Bluetooth® v2.1+EDR
- Class II module
- TX power +4dbm, -84dbm RX sensitivity
- 128-bit encryption security
- Range up to 15m
- Integrated PCB antenna
- Multipoint capability (7 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
- I2C interface(Master )

### Support profiles

- SPP (Master and slave)
- iAP1, iAP2 (ipod accessory protocol)
- HID (Slave)

### General I/O

- 10 general purpose I/Os
- 2 analogue I/O

### Electrical data

- Power supply(VCC): 1.8~3.6V
- Standby, with deep sleep: 0.28mA
- Connected with data transfer: 30mA
- Connected( Deep sleep on): 3mA
- Operating temperature range: -40 °C to 85 °C

### Qualification

- Bluetooth BQB
- FCC、CE、RoHs

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