

EPBM-COM Bluetooth Module Datasheet

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Overview

EPBM-COM Serial Blue tooth module employs Bluecore4-External chip from CSR , supports Bluetooth v2.0, industrial standard and super light dimension . It has onboard chip antenna to communicate directly with various Bluetooth dongles and mobile phone. With new AT command support ,you can even change the baud rate on the fly!

Basic Specification

_CSR chip, Bluetoothv2.0

_Wave band:2.4GHz—2.8GHz, ISM Band

_Protocol: Bluetooth V2.0

_Power Class:(+6dbm)

_Reception sensitivity:-85dBm

_Voltage:3.3(2.7V—4.2V)

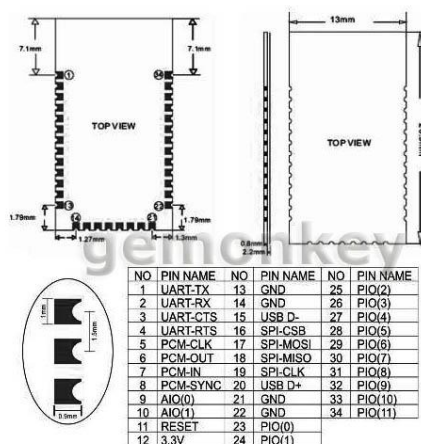
_Current:Paring-35mA, Connected-8mA

_Temperature:-40°C~+105°C

_User defined Baud rate:4800, 9600, 19200, 38400, 57600, 115200, 230400, 460800, 921600, and1382400. _Dimension:26.9mm*13mm*2.2mm,

_Embedded system, easy wire replacement, Industrial wireless solution.

_Connectable with notebook, Bluetooth dongle, PDA and etc.



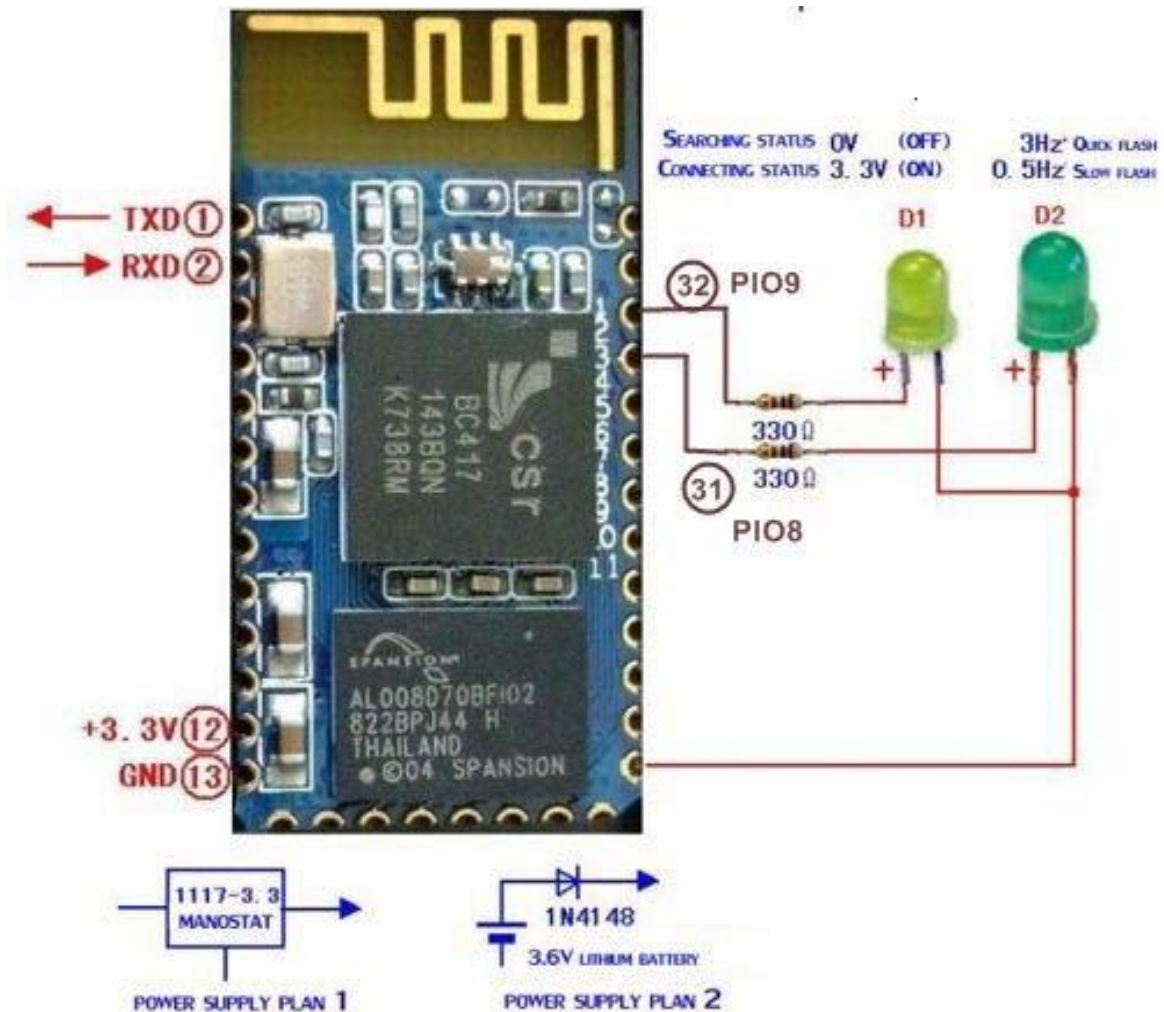
Usage

_Coupled Mode: Two modules will establish communication automatically when powered. (Hint: master blinks slower ,while slave blinks faster)

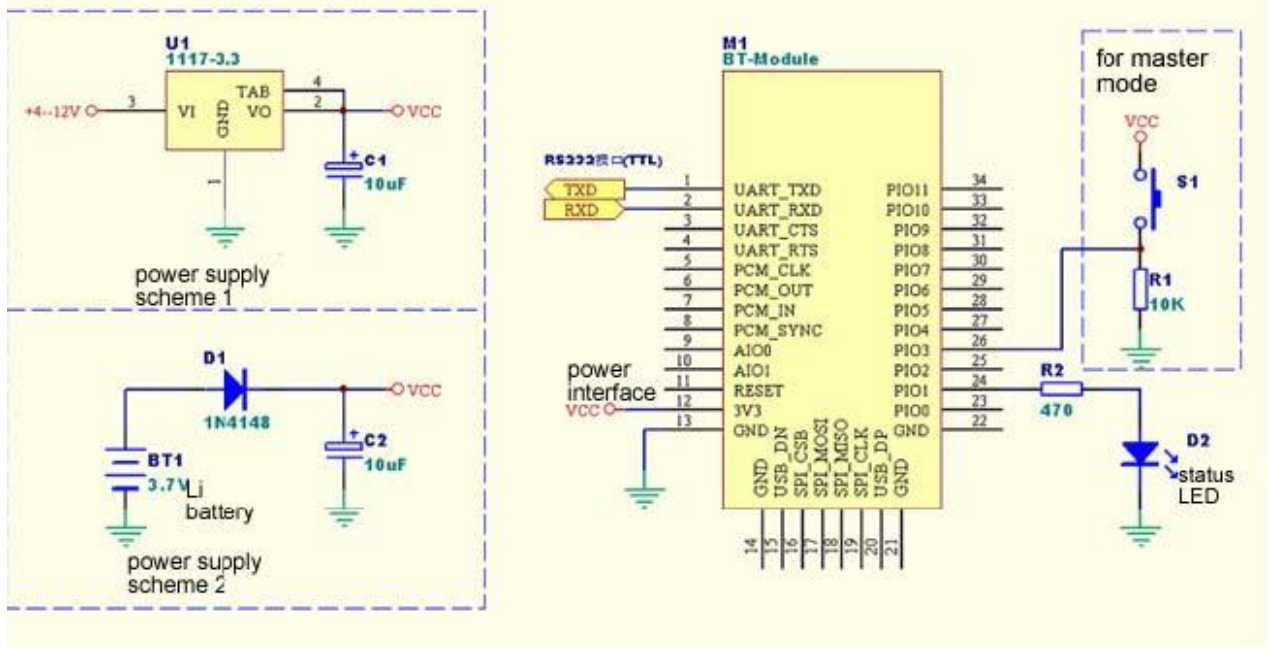
_PC hosted mode: Pair the module with Bluetooth dongle directly as virtual serial (paring code:1234)

_Paring: master and slave are remembered after first successful connection. When

The slave and master are out of range ,they will go to paring mode. To change paring, press S1.



Basic Wiring



AT commands list

compatibility:

You may change the baud rate by AT command to satisfy your application. Different baud rate modules can communicate after paired, but the baud rate should match with its device connected.

For example:

DeviceA-115200—ModuleA~~~Bluetooth~~~ModuleB—9600—DeviceB.

Prerequisite for entering AT command:

1. Properly powered.
2. Serial connected with right baud rate.
3. Not paired with other module.

Set mode:

Original serial setting:9600,N,8,1.

1. AT command test:

Input(to terminal, no entry key):AT Respond(from terminal):OK

2. Change baud rate. AT + BAUD(#):

Reprehensive SN for(#)

1-----1200

2-----2400

3-----4800

4-----9600

5-----19200

6-----38400

7-----57600

8-----115200

9-----230400

A-----460800

B-----921600

C-----1382400

Example:

Input:AT+BAUD1

Respond:ok1200

Input:AT+BAUD2

Respond;OK2400..... .

Caution: Baud rate beyond 115200 are not supported by most PC system. To revise module with baud rate over 115200 requires microprocessor programming.

3. Change module name: AT+NAME(name)

Example:

Input: AT+NAMEbill-gates

Respond: OK setname.

Note: All settings are auto saved after AT command setting.

