

Bluetooth Module Design Data Sheet

Doc Version : 0.1

Product ID	BE006
Product Name	BE CSR BC2 class 2 Bluetooth module
Firmware Version	HCI 18.1
Hardware Version	Rev.01

DESCRIPTION

BE006 is a highly integrated Bluetooth module include Radio, Baseband, Link Manager, and Host Control Interface. Due to its sufficient pin definitions, high receiving sensitivity, low power consumption, and low cost, BE-006 is suitable for numerous electronic devices, such as Notebook PC, PDA, Modem, Keyboard, Joystick, USB/UART adapter....

FEATURE

- Comply with Bluetooth Specification V1.2
- Support up to 7 ACL connection and 3 SCO connection
- Support Faster connection, Flush timeout, Synchronisation, LMP improvements, AFH, Parameter ranges and LMP SCO Handle.
- Up to 12 PIO/ 2 AIO pin definitions is ideally suited for rapid embedded development any kind of products.
- 13 bit PCM interface
- UART interface with programmable baud rate
- Compact size (20.0x14.5x2.5mm) can be fit any type of product
- RF output power -20dBm -- +3 dBm (class 1).
- High receiving sensitivity (-80 dBm 0.1%BER).
- Output interface over USB/UART/PCM/SPI.
- Alternative built-in 4M (BEM006) flash memory.
Or 8M (BEM006) flash memory.

APPLICATIONS:

Notebook PC, PDA, Access Point, USB Dongle, Headset, UART adapter, router, modem, Mouse, Keyboard, PC peripherals, embedded products....

GENERAL SPECIFICATION

ITEMS	SPECIFICATION
Supply Voltage	VDD: 3.3V(1.8V)+/-0.1V Regulated supply voltage
Carrier Frequency	2400MHz to 2483.5MHz(USA,Spain,France)
Modulation Method	GFSK,1Mbps,0.5BT Gaussian
Maximum Data Rate	Asynchronous:723.2kbps/57.6kbps Synchronous:433.9kbps/433.9kbps
Transmission Power	+3dBm to -20dBm; Power control 4 stage
Hopping	1600hops/sec, 1MHz channel space
Receiving Signal Range	-80dBm to -20 dBm
Receiver IF Frequency	1.5MHz center frequency
Baseband Crystal OSC	16MHz
Output Interface	USB,PCM,SPI,UART
Operation Temperature	-40 to +85 degree
Absolute Max Supply Voltage	3.6V for VDD,other VDD +0.3V
Storage Temperature	-40 to +105 degree
Bluetooth Specification	Ver 1.2
USB Specification	Ver 1.1