

1. Key components:

CSR BlueCore 02 External BC212015B, Bluetooth Single Chip
AMD AM29LV800B, Flash Memory
XC6204B32MR, High Speed LDO Regulators

2. Operation Principle

CSR BlueCore 02 External BC212015B, Bluetooth Single Chip

BlueCore2-External is a single chip radio and baseband IC for Bluetooth 2.4GHz systems.
It is implemented in 0.18um CMOS technology. When used with external flash containing the CSR Bluetooth software stack, it provides a fully compliant Bluetooth system for data and voice communications.
Operation at 2.7 ~ 3.3V supply.
Operation clock is provided by a 16MHz oscillator.

3. Specifications

Standard

◎ Fully compliant with BluetoothTM1.2 Standard
◎ USB UHCI/OHCI spec 1.1 compliant

Output Power

◎ 4 dBm max with power control

Frequency band

◎ 2.402GHz ~ 2.480GHz

Modulation

◎ GFSK

Sensitivity

◎ -80 dBm

Data Rate

◎ Asynchronous:723.2kbps/57.6kbps
◎ Synchronous:433.9kbps/433.9kbps

Interface

◎ A-Type USB Connector

Operating systems

◎ Windows 98SE
◎ Windows Me
◎ Windows 2000
◎ Windows XP

Ground

The ground line of USB adaptor is connected to one of the host computer via metallic enclosure of USB connector.

Integrated Antenna

◎ Peak Gain @ 2.45GHz : 2.0dBi

Coverage

◎ 10m ~ 20m
(Varies depending on use environment)

Dimension

◎ Length : 56.85mm
◎ Width : 16.5 mm
◎ Height : 8.1 mm

Weight

◎ 6 g

Operating Voltage

◎ 5V DC +/- 10%

Power Consumption

◎ Peak RF current during TX burst :75.5mA
◎ Peak RF current during RX burst :68mA

LED Indicators

◎ Transmit / Receive (Flashing Blue)

Temperature

◎ Operation temperature : -10°C ~ +70°C
◎ Storage temperature : -30°C ~ +75°C

