

BF10 Bluetooth Module

Class II

Version 1.0

Shenzhen BlueFive Technology Co., Ltd.

**Shenzhen BlueFive reserves the right to change the circuitry and specifications without notice at any time.*

1. Features

- Bluetooth Specification V2.0+EDR compliant
- Class 2(<4dBm),10m link range
- UART interface with programmable baud rate
- GPIO control
- Built-in Firmware(custom)
- Built-in 8Mbit flash memory



BF10 Module

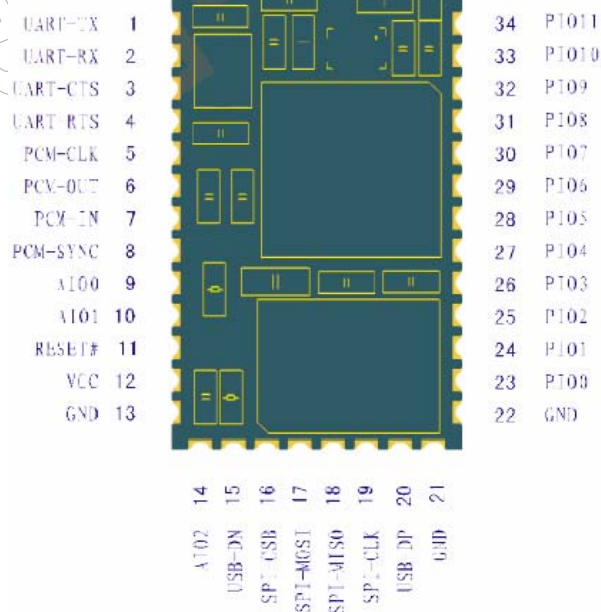
2.Applications

- Computer & peripheral
- Embedded systems
- Telemetry&Telematics
- Automobile, Home electronics
- Industrial applications
- Sensors
- Instrument & Meter
- Hand-held devices
- Transportation systems
- Cable replacement
- RS422/485 Network

3. Module Package

3.1 Pinout Diagram

BF10 Module Pinout Diagram



3.2 Pin Description

Pinout Description as Shown in the Table below.

Pin	Name	Describe
1	UART_TX	UART data output, active high
2	UART_RX	UART data input, active high
3	UART_CTS	UART clear to send, active low
4	UART_RTS	UART require to send, active low
5	PCM_CLK	Synchronous Data Clock
6	PCM_OUT	Synchronous Data Output
7	PCM_IN	Synchronous 8kss data out
8	PCM_SYNC	Synchronous Data Strobe
9	AIO0	Programmable Input/Output line
10	AIO1	Programmable Input/Output line
11	RESETB	low active reset, low level must be maintained 5ms
12	3.3 VCC	Module supply voltage
13	GND	Ground
14	GND	Ground
15	USB_-	USB Data-
16	SPI_CSB	Chip select for Synchronous Serial Interface
17	SPI_MOSI	Synchronous Serial Interface Data Input
18	SPI_MISO	Synchronous Serial Interface Data Input
19	SPI_CLK	Synchronous Serial Interface Clock
20	USB_+	USB Data+
21	GND	Ground
22	GND	Ground
23	PIO0	Programmable Input/output line
24	PIO1	Programmable Input/output line
25	PIO2	Programmable Input/output line
26	PIO3	Programmable Input/output line
27	PIO4	Programmable Input/output line
29	PIO5	Programmable Input/output line
29	PIO6	Programmable Input/output line
30	PIO7	Programmable Input/output line
31	PIO8	Programmable Input/output line
32	PIO9	Programmable Input/output line
33	PIO10	Programmable Input/output line
34	PIO11	Programmable Input/output line

4.Specifications

NO.	Item	Specification
1	Bluetooth specification	version 2.0+EDR
2	Supply voltage	3.3 V \pm 0.1 V regulated voltage. (Noise < 10 mVP-P.)
3	Supply current	Maximum current (peak): 60mA Average current : active 20 mA;
4	Frequency range	2400 MHz ... 2483.5 MHz, (ISM-Band)
5	Carrier frequency	2402 MHz ... 2480 MHz. F = 2402 + k MHz; k = 0...78
6	Hopping	1600 hops/s, 1 MHz channel space
7	Receiving signal range	-82 to -20 dBm. (Typical)
8	Transmission power	Minimum: -18 ... -16 dBm Maximum +0 ... +4 dBm
9	Maximum data rate	3M
10	Modulation method	GFSK, 1 Mbps, 0.5 Gaussian
11	Operation temperature	-20°C to + 55 °C
12	Storage temperature	-40°C to +85°C

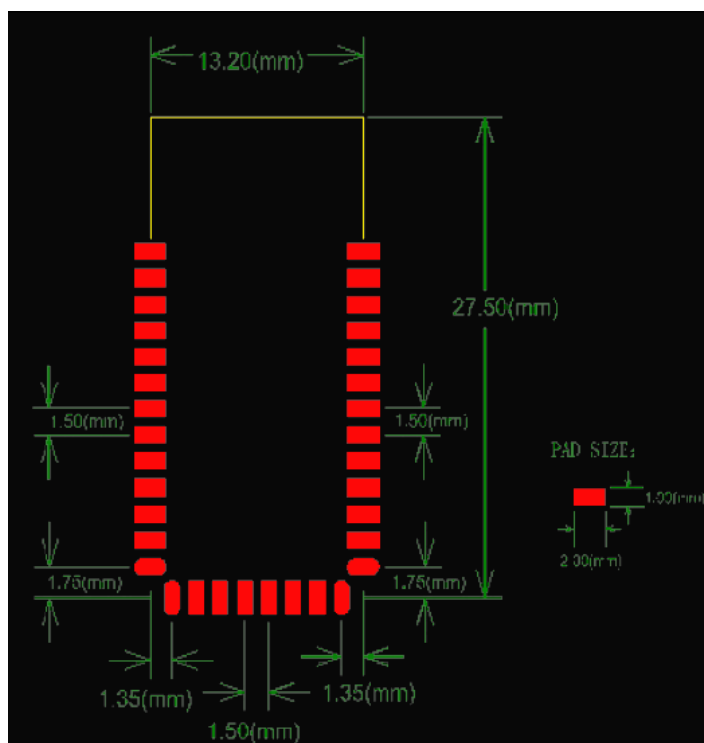
5. Firmware Custom

the SPP with baudrate(bps):

1200,2400, 4800,9600,14400,19200,38400,
57600,115200,230400,460800,921600,1382400

If need special function ,please contact us!

6. Module Size



(Unit:mm)

7. Contact Information

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