

蓝牙模块规格书

型号：HZ-BC3-08

深圳市诚至微科技有限公司
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<http://www.czwtech.com>

HZ-BC3-08 Module

Features

- * **Bluetooth Spec. V1.0 Compliant**
- * **Class 2 type Output Power**
- * **Support Firmware Upgrade**
- * **Support Piconet, up to 7 Slaves**
- * **Full Speed Bluetooth, 723Kbps**
- * **USB 1.1/2.0 and UART Host Interface**
- * **Digital Audio Interface : PCM, I²S, SPDIF**
- * **Built in 16-bit Stereo Codec**
- * **Low Power 1.8V, 3.3V Operation**
- * **Size: 20mm x 13mm x 2mm**
- * **RoHS compliant**

CSR , BC352239A
HZ-BC3-08 Rev.1.0
May 2006

Product Description

HZ-BC3-08 is a Class 2 Bluetooth module using BlueCore3-Multimedia External chipset from leading Bluetooth chipset supplier Cambridge Silicon Radio.

HZ-BC3-08 interfaces up to 8Mbit of 16-bit external Flash memory. When used with the CSR Bluetooth software stack, it provides a Bluetooth specification V1.0 fully compliant system for data and voice communications .

Applications

- *Hands-free Car Kit
- *Stereo Headset
- *AV Headphones
- *Echo Cancellation
- *High Performance Telephony Headsets
- *A/V ,Headset,Handsfree Profile Support
- *A/V USB Dongle

Specifications

Operating Frequency Band	2.4GHz -2.48GHz unlicensed ISM band
Bluetooth Specification	V1.0
Output Power Class	Class 2
Operating Voltage	1.8V , 3.3V
Host Interface	USB 1.1/2.0 or UART
Audio Interface	PCM, I ² S, SPDIF
Flash Memory Size	8Mbit
Dimension	20mm (L) x 13 (W) mm x 2mm (H)

* Specifications are subject to change without prior notice

Electrical Characteristics

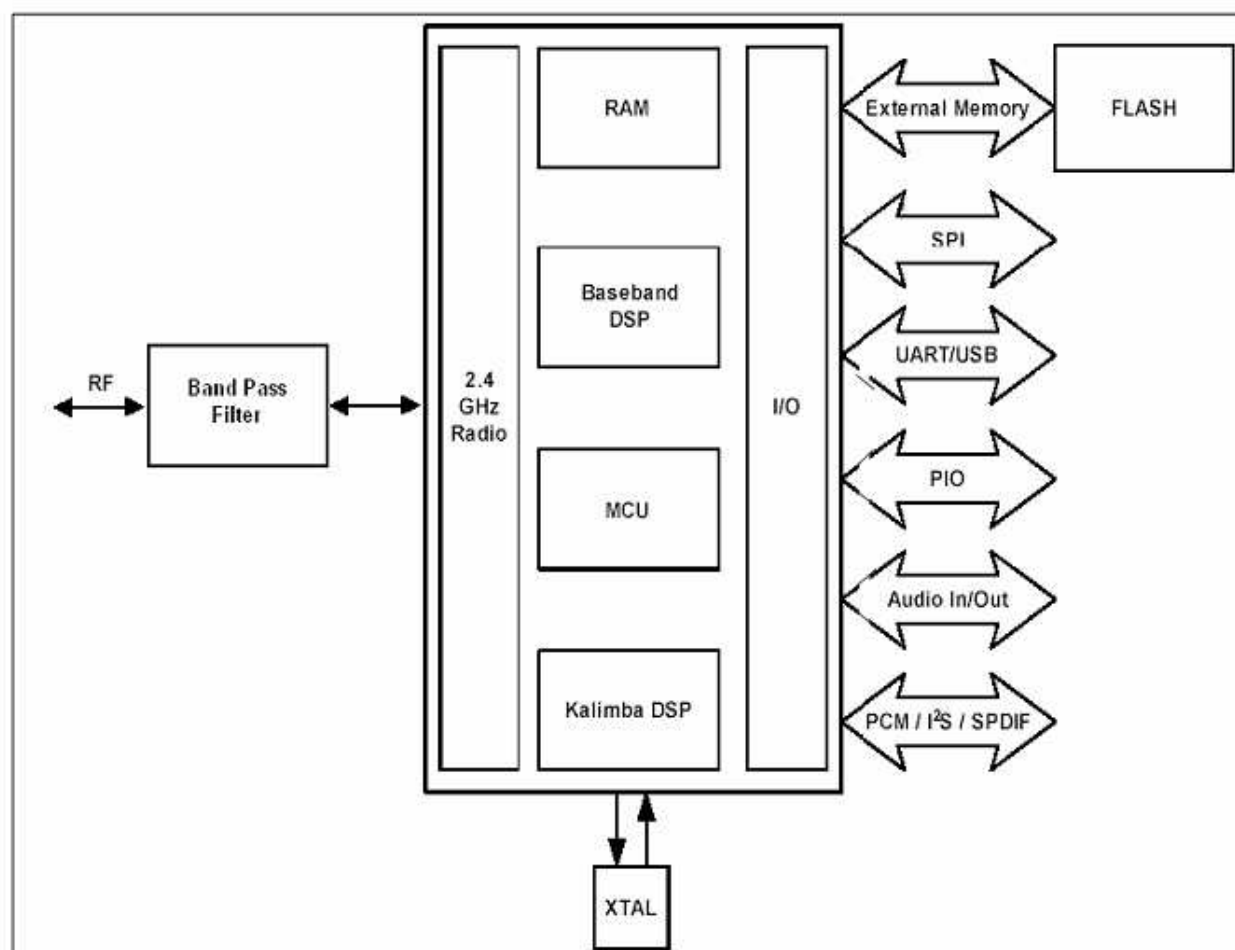
Absolute Maximum Rating	Min	Max
Storage Temperature	-40 °C	+85 °C
Supply Voltage, (VDD, VPA)	-0.30V	+3.60V

Recommended Operating Conditions	Min	Max
Operating Temperature Range	-20 °C	+75 °C
Supply Voltage, (VCC)	3.0V	3.6V
Supply Voltage, (VDD)	1.7V	1.9V

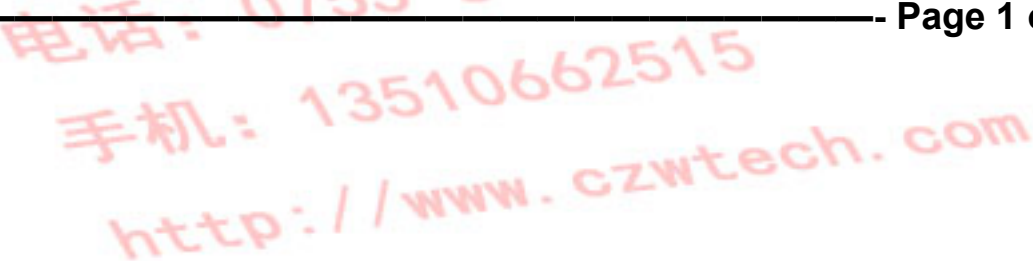
Power Consumption	Units	Average
SCO Connection HV3 (30ms interval sniff mode)	.mA	21
SCO Connection HV1	mA	42
ACL Data Transfer 115.2Kbps UART no traffic(Master)	mA	5
ACL Data Transfer 115.2Kbps UART no traffic(Slave)	mA	22
ACL Data Transfer 721Kbps USB	mA	45
Standby	mA	0.15
CODEC		
Microphone inputs and ADC/channel	mA	0.85
DAC and loudspeaker driver, no signal/channel	mA	1.4
Digital audio processing subsystem	mA	8

Test condition: VDD=3.3V; f=2.45GHz; T=20°C

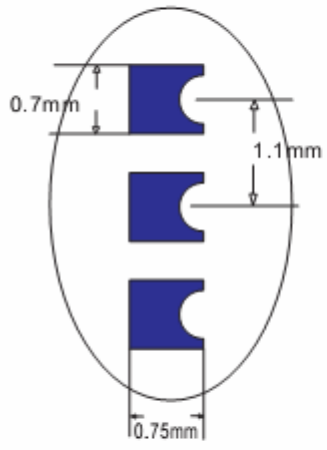
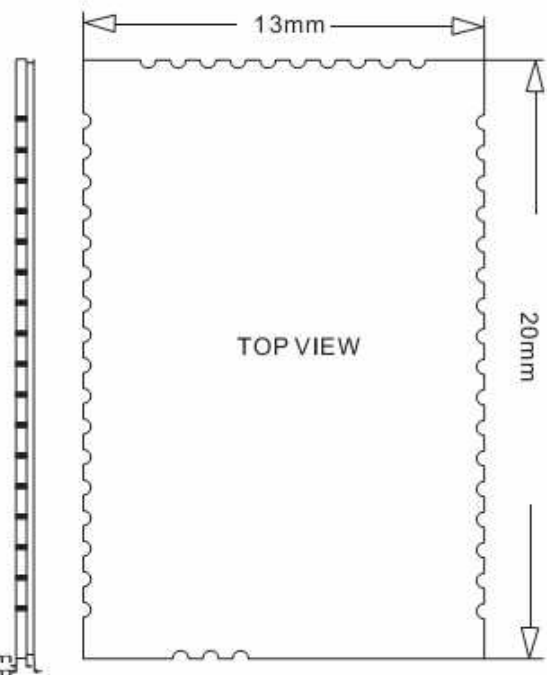
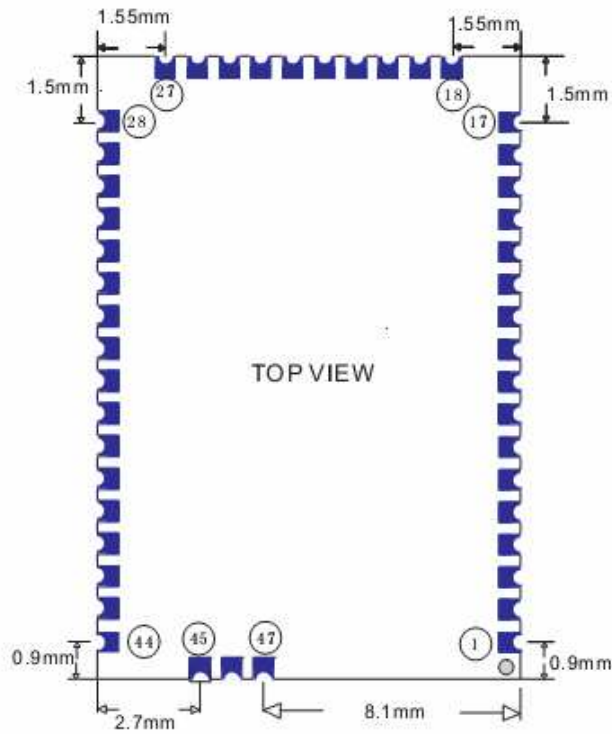
Block Diagram



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NO	PIN NAME	NO	PIN NAME
1	Spk L-	25	RX
2	SPK L+	26	RESET
3	SPK R-	27	GND
4	SPK R+	28	PI04
5	GND	29	PI05
6	MIC L+	30	PI06
7	MIC L-	31	PI07
8	MIC R+	32	MOSI
9	MIC R-	33	CSB
10	1.8V	34	CLK
11	PCM-IN	35	MISO
12	PCM-SYNC	36	PI010
13	PCM-CLK	37	PI011
14	PCM-OUT	38	PI03
15	AI00	39	PI02
16	AI01	40	PI01
17	AI03	41	PI00
18	GND	42	PI08
19	3.3V	43	PI09
20	USB D+	44	GND
21	USB D-	45	GND
22	RTS	46	ANT
23	CTS	47	GND
24	TX		

PIN NO.	NAME	TYPE	FUNCTION	RE-MARK
28	PIO4	Bi-directional with programmable strength	PIO or USB on (input senses when VBUS is high, wakes BlueCore3-Multimedia	
29	PIO5	Bi-directional with programmable strength	PIO line or chip detaches from USB when this input is high	
30	PIO6	Bi-directional with programmable strength	PIO line or clock request output to enable external clock for external clock line	
31	PIO7	Bi-directional with programmable strength	Programmable input/output line or programmable frequency clock output	
32	MOSI	CMOS Input	Serial Peripheral Interface Data Input	
33	CSB	CMOS Input	Chip Select For Synchronous Serial Interface (Active Low)	
34	CLK	CMOS Input	Serial Peripheral Interface Clock	
35	MISO	CMOS Output	Serial Peripheral Interface Data Output	
36	PIO10	Bi-directional	Programmable input/output line	
37	PIO11	Bi-directional	Programmable input/output line	
38	PIO3	Bi-directional with programmable strength	PIO or output goes high to wake up PC, when in USB mode or clock request input from host controller	
39	PIO2	Bi-directional with programmable strength	PIO or external clock request	
40	PIO1	Bi-directional with programmable strength	Control output for external PA (If fitted)	
41	PIO0	Bi-directional with programmable strength	Control output for external Tx/Rx switch (if fitted)	
42	PIO8	Bi-directional	Programmable input/output line	
43	PIO9	Bi-directional	Programmable input/output line	
44	GND	GND	Ground	
45	GND	GND	Ground	
46	ANT	RF	RF Interface	
47	GND	GND	Ground	