

嘉兴佳利电子股份有限公司

规格承认书

Spec for approval

客户名称：

我司料号：

贵司料号：

软件版本：

承认签章

佳利承认			客户承认		
拟制	审核	批准	拟制	审核	批准

地址：

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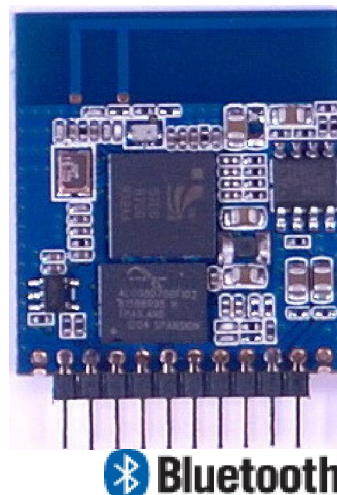


ZYM-BT53 Module

CSR BC57E687C

Rev.1.0

Jun 2010



Device Features

- A small and cost effective Bluetooth® System
- Bluetooth® specification v2.1 compliant
- Class 2, up to 10-meter range
- Complete 2.4GHz Bluetooth® System
- Power management: low power 1.8V operation for Bluetooth® core
- Compact size: 29 mm x 25.5 mm
- Bluetooth® Profile Supported: HSP, HFP, A2DP ,AVRCP OPP,PBAP
- Phonebook synchronization
- Built in 16-bit Stereo Codec- 92dB SNR for DAC
- Build-in antenna
- On-board flash memory (8Mbits/16Mbits)
- Optional echo cancellation software library
- Support multiple connections
- Support for 802.11 Co-existence
- Surface mount module for embedded applications
- Several firmware options
- Rewritable flash memory for easy upgrade route
- Custom firmware production available

General Description

The ZYM-BT53 module from FullCom is a complete Bluetooth® solution. It is built on CSR BC05 MultiMedia External Core and 8Mbit/16Mbit Flash memory. It's a short range, compact and cost effective module. Be able to be embedded into your any electronics devices which need Bluetooth® connection, such as PND, Car Audio, Home Audio, Car kit, Handsfree applications...

The ZYM-BT53 module is a power class2 Bluetooth® device, and is in compliance with version 2.1 of the Bluetooth® specification. It includes CSR BC05 MultiMedia Core and 8Mbit/16Mbit Flash memory, a radio front-end, antenna interface, supporting circuitry, together with some higher-level software protocols and applications such as L2CAP, SDP, GAP, HSP, HFP, A2DP ,AVRCP,OPP and PBAP resided in the flash memory. Phone book synchronization feature enables your product easy-to-use and lighted sales point.

Applications

- Automotive car kit applications
- PDAs and other portable terminals
- Car Radio/Car DVD

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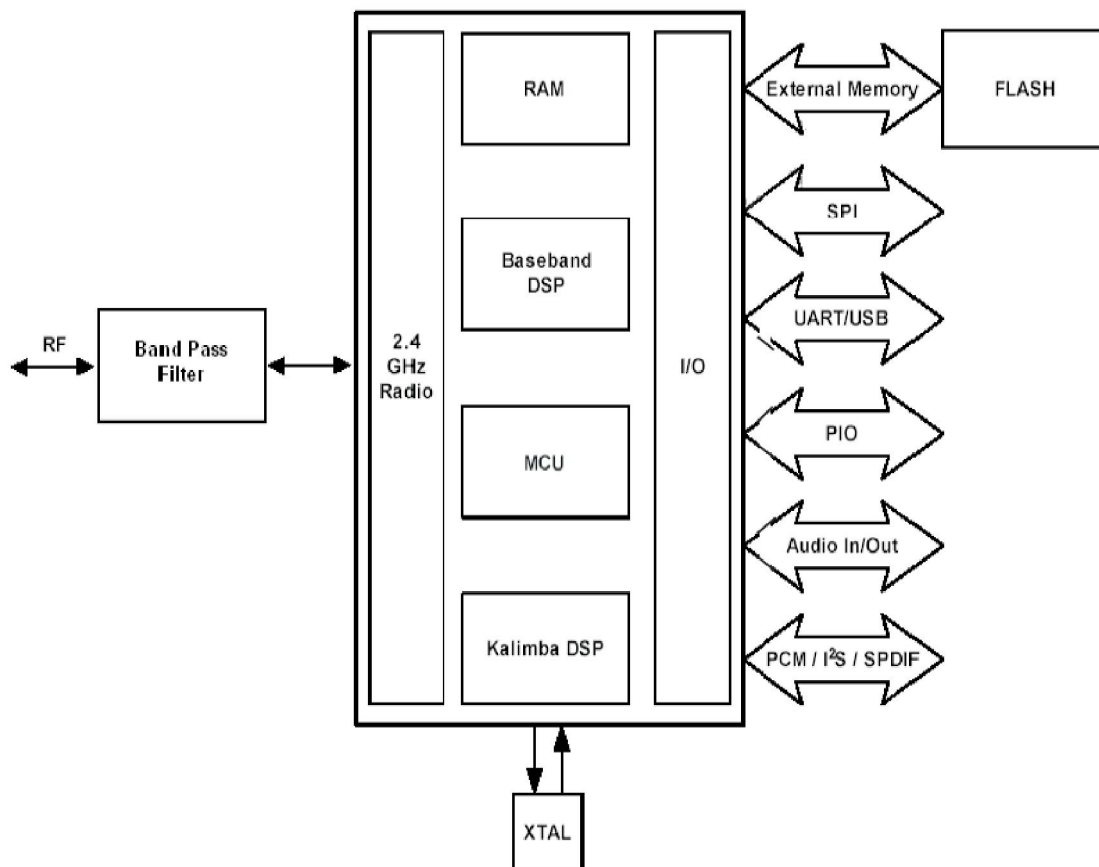
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System Architecture



Specifications

Operating Frequency Band	2.4GHz -2.48GHz unlicensed ISM band
Bluetooth Specification	V2.1
Output Power Class	Class 2
Operating Voltage	3.3V~5V
Host Interface	UART
Flash Memory Size	8Mbit
Dimension	29 mm x 25.5 mm

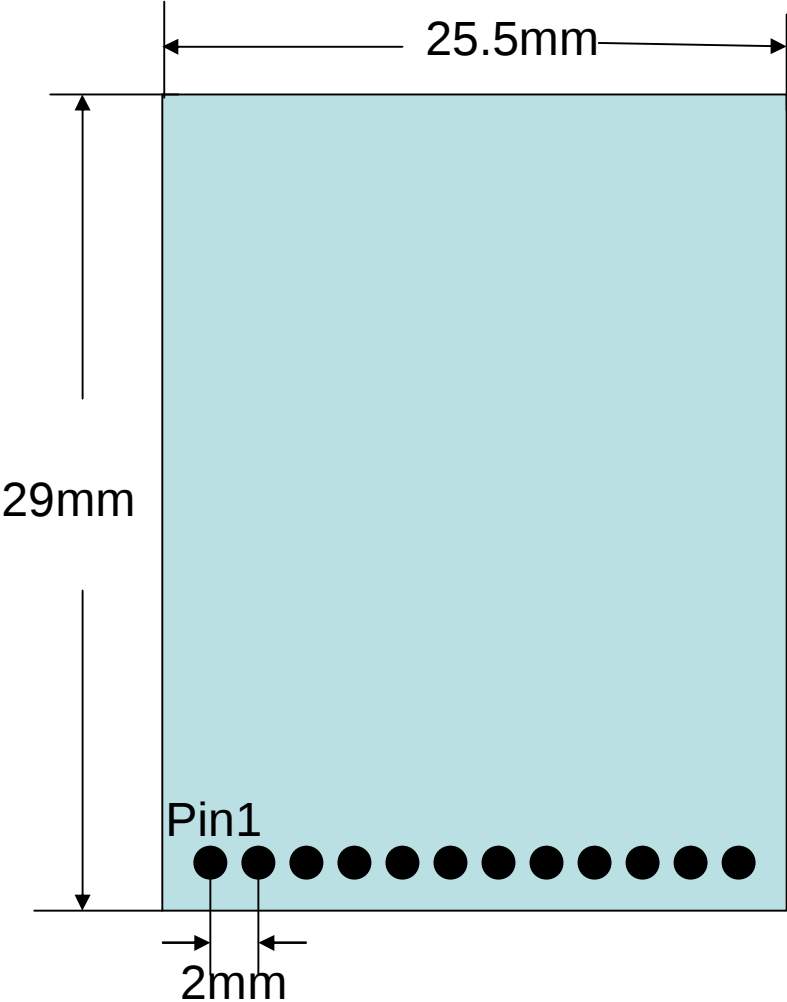
NOTES: Specifications are subject to change without prior notice

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	-10 C	+50 C
Supply Voltage, (VCC)	3.0V	3.6V
Supply Voltage, (VDD)	1.7V	1.9V

Mechanical Dimension



Pin Definitions

PIN NO.	NAME	DIRECTION	FUNCTION
1	NC	Input/Output	Not used currently
2	SPK_OUT_L	Output	Left channel Audio out
3	SPK_OUT_R	Output	Right channel Audio out
4	AGND	-	Analog ground
5	MIC_P	Input	Microphone positive pole Input, Internal power supply
6	MIC_GND	-	Microphone Ground
7	VDD	Input	Power supply,supply voltage 3.3V~5V
8	GND	-	Power Ground
9	UART_TX	Output	UART data output
10	UART_RX	Input	UART data input
11	NC	Input/Output	Not used currently
12	NC	Input/Output	Not used currently