BLK-MD-SPK-B

Introduction

BLK-MD-SPK-B Bluetooth module is designed for product design of Bluetooth speakers. Has the characteristics of high integration, small size, just with a few external components will be able to achieve its powerful features. With **A2DP, AVRCP** transmission and remote control protocol any Bluetooth audio device (such as: Bluetooth-enabled mobile phone, computer Bluetooth adapter, etc.) to establish a connection, to achieve high-quality stereo audio stream wireless receiver, and audio player remote control. BLK-MD-SPK-B Bluetooth stereo receiver module to the user interface, remote control buttons work the status indication interface, stereo audio output interface.

Feature

- Class2 power level.
- The built-in lithium battery charging circuit.
- Powerful noise elimination circuit.
- Effective transmission distance up to 20 meters.
- Follow the Bluetooth V2.0 + EDR Bluetooth specification.
- Support A2DP V1.2, AVRCP V1.4 profiles
- Integrated EEPROM configurable operating modes and parameters
- Stereo audio output can directly drive 40mW @ 32Ωspeeker without the need for DC-blocking capacitor
- Integrated power-on reset and programmable low voltage monitoring function
- 5 Control buttons, including the switch machine play pause button, volume plus the volume down on the one, the next one. Supports no button automatic connection function.
- 2 LEDs used to indicate different working status

Application Ideas

- All kinds of high-quality Bluetooth stereo audio receiving device.
- All kinds of high-quality Bluetooth stereo speakers, audio.

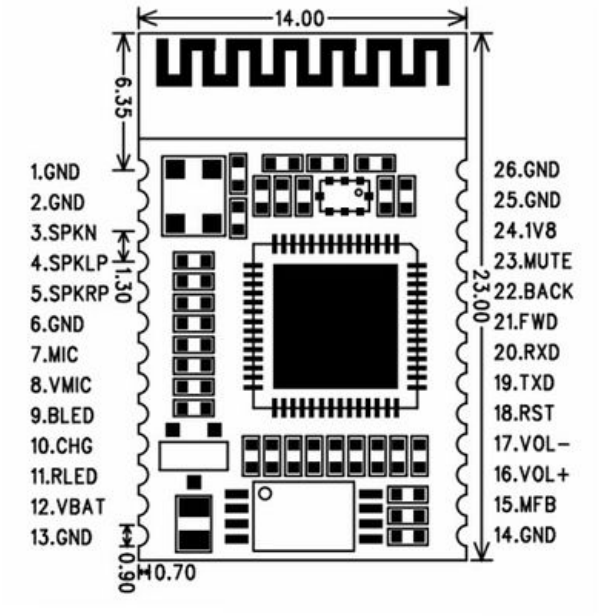
Cautions

- **Power supply decoupling capacitors should be located close to the module pins.**
- **The module substrate should be fully Shop (antenna below can not shop), and in the position of the substrate covered with insulating white oil.**
- **The audio circuit ground and other ground should be separated, sufficient grounding at the power ground separate alignment**
- **Module ground should be separated from the other ground at full power ground traces alone in the ground.**
- **All the ground should be a large number of shop copper, multi-punched.**
- **The module antenna placed as far as possible the edge of the base plate, the antenna near metal objects can not have, to ensure good communication with the outside world.**
- **Is preferably the antenna protruding floor, or to the floor below the antenna milling empty.**

Specification

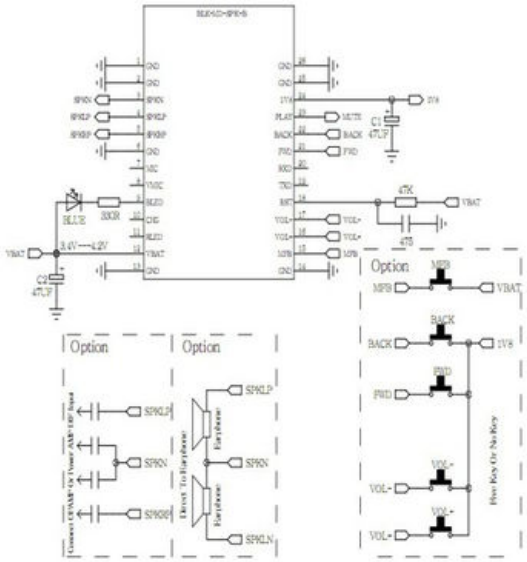
- BT-Speaker of the module name
- Module pairing code 0000
- Baud Rate 115200
- Module size: 14x23mm
- Working pressure VBAT: 3.4 - 4.2V

Pin definition and Rating



No	IO Define	Input/Output	Pin Function Description
1	GND	Input/Output	Ground
2	GND	Input/Output	Ground
3	SPKN	Output	Stereo differential output negative terminal
4	SPKIP	Output	Stereo left channel differential output positive terminal
5	SPKRP	Output	Stereo right channel differential output positive terminal
6	GND	Input/Output	Ground
7	MIC	Input	Microphone input
8	VMIC	Output	Microphone power
9	BLED	Input	The work status indications interface usually pick the blue lights
10	CHG	Input	Lithium battery charging input port
11	RLED	Input	State-of-charge, and pairing status indicator Interface usually pick a red light
12	VBAT	Input	Lithium battery positive terminal (power input)
13	GND	Input/Output	Ground
14	CHG	Input/Output	Ground
15	MFB	Input	Switch machine (L) / receive calls / playback pause (short press)
16	VOL+	Input	The volume increased control interface
17	VOL-	Input	Reduce the volume control interface
18	RST	Input	Reset Interface
19	TXD	Output	Serial signal output
20	RXD	Input	Serial signal input
21	FWD	Input	Playing under a control interface
22	BACK	Input	Play on a control interface
23	MUTE	Output	Mute (no audio output, audio output)
24	1V8	Output	1.8V voltage output of
25	GND	Input/Output	Ground
26	GND	Input/Output	Ground

Reference connect circuit



Performance parameters

Example

The projects and application examples.

Bill of Materials (BOM) /parts list

All the components used to produce the product.

FAQ

Please list your question here:

Support

If you have questions or other better design ideas,

Version Tracker

Revision	Descriptions	Release
v1.0	Initial public release	date

Bug Tracker

Bug Tracker is the place you can publish any bugs you think you might have found during use. Please write down what you have to say, your answers will help us improve our

products.

Additional Idea

The Additional Idea is the place to write your project ideas about this product, or other usages you've found. Or you can write them on Projects page.

Resources

- Command_set
- Technical_Manual

How to buy

Click here to buy:

See Also

Other related products and resources.

Licensing

External Links

Links to external webpages which provide more application ideas, documents/datasheet or software libraries

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