ATS2805A_BT 模组说明书

Latest Version: 1.0

2013-10-12

Declaration

Circuit diagrams and other information relating to products of Actions Semiconductor Company, Ltd. ("Actions") are included as a means of illustrating typical applications. Consequently, complete information sufficient for construction is not necessarily given. Although the information has been examined and is believed to be accurate, Actions makes no representations or warranties with respect to the accuracy or completeness of the contents of this publication and disclaims any responsibility for inaccuracies. Information in this document is provided solely to enable use of Actions' products. The information presented in this document does not form part of any quotation or contract of sale. Actions assumes no liability whatsoever, including infringement of any patent or copyright, for sale and use of Actions' products, except as expressed in Actions' Terms and Conditions of Sale for. All sales of any Actions products are conditional on your agreement of the terms and conditions of recently dated version of Actions' Terms and Conditions of Sale agreement Dated before the date of your order.

This information does not convey to the purchaser of the described semiconductor devices any licenses under any patent rights, copyright, trademark rights, rights in trade secrets and/or know how, or any other intellectual property rights of Actions or others, however denominated, whether by express or implied representation, by estoppel, or otherwise.

Information Documented here relates solely to Actions products described herein supersedes, as of the release date of this publication, all previously published data and specifications relating to such products provided by Actions or by any other person purporting to distribute such information. Actions reserves the right to make changes to specifications and product descriptions at any time without notice. Contact your Actions sales representative to obtain the latest specifications before placing your product order. Actions product may contain design defects or errors known as anomalies or errata which may cause the products functions to deviate from published specifications. Anomaly or "errata" sheets relating to currently characterized anomalies or errata are available upon request. Designers must not rely on the absence or characteristics of any features or instructions of Actions' products marked "reserved" or "undefined." Actions reserves these for future definition and shall have no responsibility whatsoever for conflicts or incompatibilities arising from future changes to them.

Actions' products are not designed, intended, authorized or warranted for use in any life support or other application where product failure could cause or contribute to personal injury or severe property damage. Any and all such uses without prior written approval of an Officer of Actions and further testing and/or modification will be fully at the risk of the customer.

Copies of this document and/or other Actions product literature, as well as the Terms

Copyright © Actions Semiconductor Co., Ltd. 2013. All rights reserved.

and Conditions of Sale Agreement, may be obtained from an authorized Actions representative. The word "ACTIONS", the Actions' LOGO, whether used separately and/or in combination, and the phase "ATS2805A", are trademarks of Actions Semiconductor Company, Ltd., Names and brands of other companies and their products that may from time to time descriptively appear in this product data sheet are the trademarks of their respective holders; no affiliation, authorization, or endorsement by such persons is claimed or implied except as may be expressly stated therein.

ACTIONS DISCLAIMS AND EXCLUDES ANY AND ALL WARRANTIES, INCLUDING WITHOUT LIMITATION ANY AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, AND AGAINST INFRINGEMENT AND THE LIKE, AND ANY AND ALL WARRANTIES ARISING FROM ANY COURSE OF DEALING OR USAGE OF TRADE.

IN NO EVENT SHALL ACTIONS BE RELIABLE FOR ANY DIRECT, INCIDENTAL, INDIRECT, SPECIAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES; OR FOR LOST DATA, PROFITS, SAVINGS OR REVENUES OF ANY KIND; REGARDLESS OF THE FORM OF ACTION, WHETHER BASED ON CONTRACT; TORT; NEGLIGENCE OF ACTIONS OR OTHERS; STRICT LIABILITY; BREACH OF WARRANTY; OR OTHERWISE; WHETHER OR NOT ANY REMEDY OF BUYER IS HELD TO HAVE FAILED OF ITS ESSENTIAL PURPOSE, AND WHETHER ACTIONS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR NOT.

Copyright © Actions Semiconductor Co., Ltd. 2013. All rights reserved.

一、模组框图

二、模组尺寸图

Copyright © Actions Semiconductor Co., Ltd. 2013. All rights reserved.

三、模组引脚说明

引脚序号	引脚名	功能描述
1	GPIO_A19	SPI 接口--SPI_SS
2	SPI_MISO	SPI 接口--MISO
3	SPI_MOSI	SPI 接口--MOSI
4	SPI_CLK	SPI 接口--时钟 Clock
5	GPIO_B19	通用 IO 接口,复用功能详见 datasheet
6	USBDM	USB 接口--DM 信号
7	USBDP	USB 接口--DP 信号
8	AOUTL	模拟音频输出口--左声道
9	AOUTR	模拟音频输出口--右声道
10	AGND	模拟地
11	LINEINR	线路音频输入--左声道
12	LINEINL	线路音频输入--右声道
13	MICIN	麦克风输入
14	FMINL	FM 收音输入--左声道
15	FMINR	FM 收音输入--右声道
16	AVCC	ATS2805A 的模拟电源输出脚
17	LRADC1	内部 ADC，输入电压范围是 0～AVCC,可接线控按键
18	VCC	ATS2805A 的电源输出脚
19	GND	地
20	BT_ANT	蓝牙天线脚，需要外接天线（推荐 PCB 天线）
21	FM_ANT	FM 天线脚，需要外接天线
22	GND	地
23	VBAT	锂电池供电脚，输入电压范围为 3.4V~4.2V
24	DC5V	5V 供电脚，输入电压范围为 4.75V～5.25V
25	RTCVDD	内部电源脚，不接负载
26	ON/OFF	开关机/复位引脚，使用方式参考标准原理图
27	LOSCI	32.768KHz 晶振引脚
28	LOSCO	32.768KHz 晶振引脚
29	GPIO_B13	通用 IO 接口,复用功能详见 datasheet
30	GPIO_B2	SD 卡时钟信号 CLK
31	GPIO_B1	SD 卡命令信号 CMD
32	GPIO_B8	SD 卡数据信号 DAT0
33	GPIO_A16	通用 IO 接口,复用功能详见 datasheet

Copyright © Actions Semiconductor Co., Ltd. 2013. All rights reserved.

34	GPIO_A8	通用 IO 接口,复用功能详见 datasheet
35	I2CSDA	GPIO_A6 引脚,软件模拟 I2C
36	I2CSCL	GPIO_A5 引脚,软件模拟 I2C
37	GPIO_A12	通用 IO 接口,复用功能详见 datasheet
38	GPIO_B4	通用 IO 接口,复用功能详见 datasheet
39	GPIO_A10	通用 IO 接口,复用功能详见 datasheet
40	GPIO_A11	通用 IO 接口,复用功能详见 datasheet
41	GND	地
42	GPIO_A30	通用 IO 接口,复用功能详见 datasheet
43	GPIO_A29	通用 IO 接口,复用功能详见 datasheet
44	GPIO_A28	通用 IO 接口,复用功能详见 datasheet
45	GPIO_A27	通用 IO 接口,复用功能详见 datasheet
46	GPIO_A26	通用 IO 接口,复用功能详见 datasheet
47	GPIO_A25	通用 IO 接口,复用功能详见 datasheet
48	GPIO_A24	通用 IO 接口,复用功能详见 datasheet
49	GPIO_A23	通用 IO 接口,复用功能详见 datasheet

Copyright © Actions Semiconductor Co., Ltd. 2013. All rights reserved.