

WiFi/蓝芽双模无线音箱

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WiFi无线 & 蓝牙音箱平台





WiFi无线 & 蓝芽音箱平台

- 智能WiFi/蓝芽双模音箱方案
- 支持DLNA / 音乐播放
- 支持AirPlay通过音乐播放
- 支持iPhone & iPad USB 插座连接
- 支持网络多个喇叭音箱
- 支持多室广播音乐(TBD)
- 支持网络收音机(需客制化)
- Bluetooth A2DP / AAC & 8+1 Link
- 支持USB/SD记忆卡多种音乐格式播放
- 支持多个控制键
- 支持音乐均衡器调整(TBD)
- 支持客制化**APP**需求





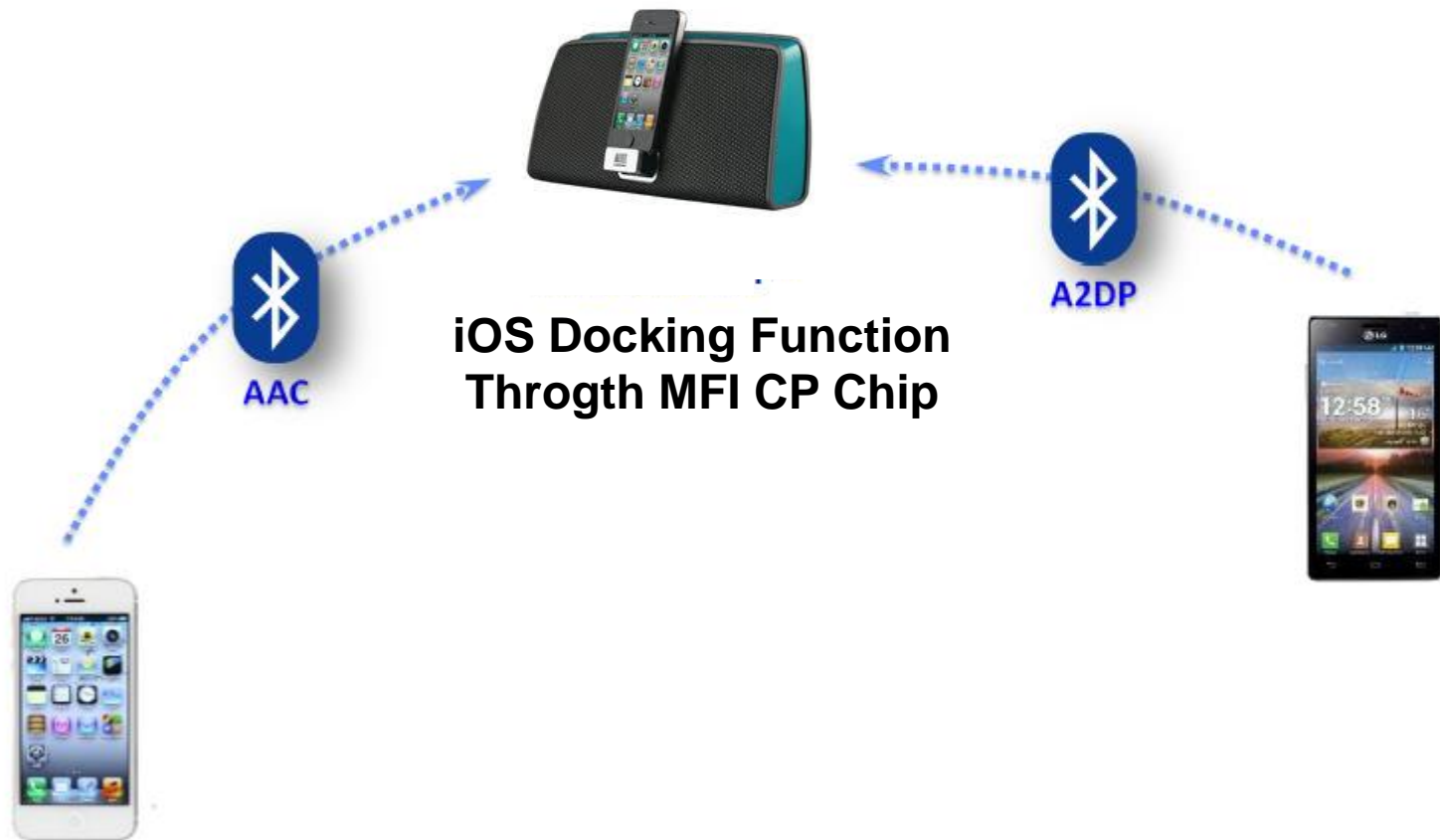
WiFi无线 DLNA / Airplay 音箱功能





蓝牙音箱功能

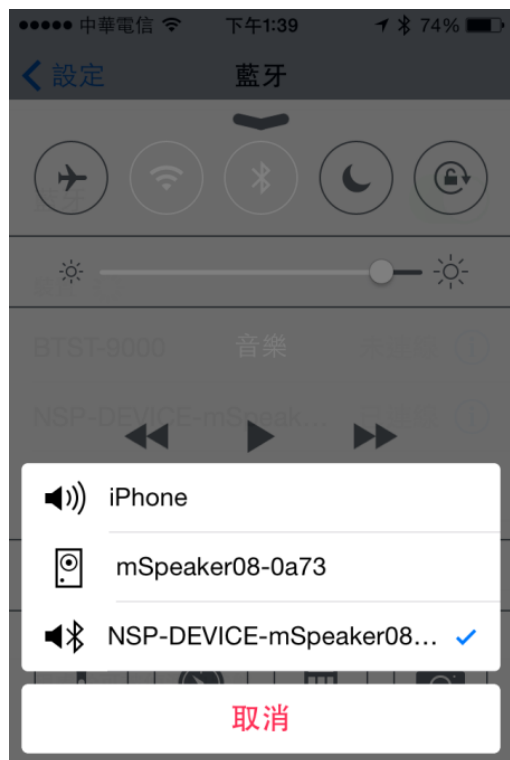
- Supports Bluetooth stereo audio (A2DP & AAC):





多个喇叭使用架构

* 同时对多个WiFi & 蓝芽喇叭连接





规格特色

- 简单的APP软件操作
- 支持iDevice Wi-Fi 分享及USB插座 (Docking) Mfi 认证
- 云端存取服务(by Customer request)
- 网络收音机(by customer request)





SD 记忆卡播放 & iPhone底座



功能控制键





音源格式规格

CODEC	
Local Music Playback	Yes
MPEG 1 Layer 3	8/16/24/32/40/48/56/64/80/96/112/128/160/192/224/256/320 kbps/VBR
WMA ^{*1}	WMA 7~9.1, CBR up to 320 kbps (spec 定义最高到 320 kbps), VBR up to 256 kbps
APE	Fast & Normal 2CH 24-bit/48KHz, 1152 kbps
FLAC	2CH VBR
PCM	LPCM: 8/16/20/24-bit
	MS-ADPCM: Up to 320Kbps
	IMA-ADPCM: Yes
AAC-LC	8 kbps ~ 320 kbps
AAC-HE (AAC+)	yes
WMA Pro ^{*1}	yes
ALAC	Up to 16-bit/48KHz





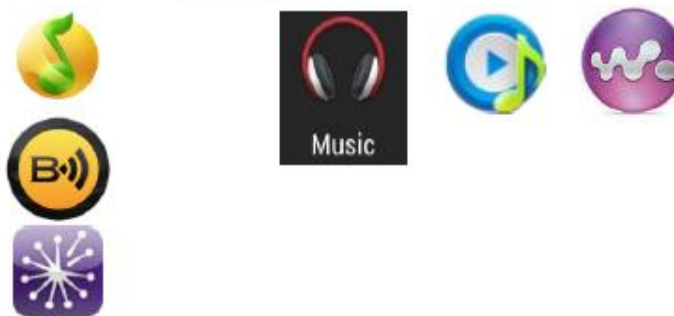
多种音乐播放器及服务



Wi-Fi with **AirPlay**



Wi-Fi with **DLNA**



BT A2DP(AAC)



BT A2DP(SBC)





多种音乐拨放器及服务



Wi-Fi with **AirPlay**



Wi-Fi with **AirPlay** or **DLNA**



BT A2DP(AAC)



BT A2DP(SBC)



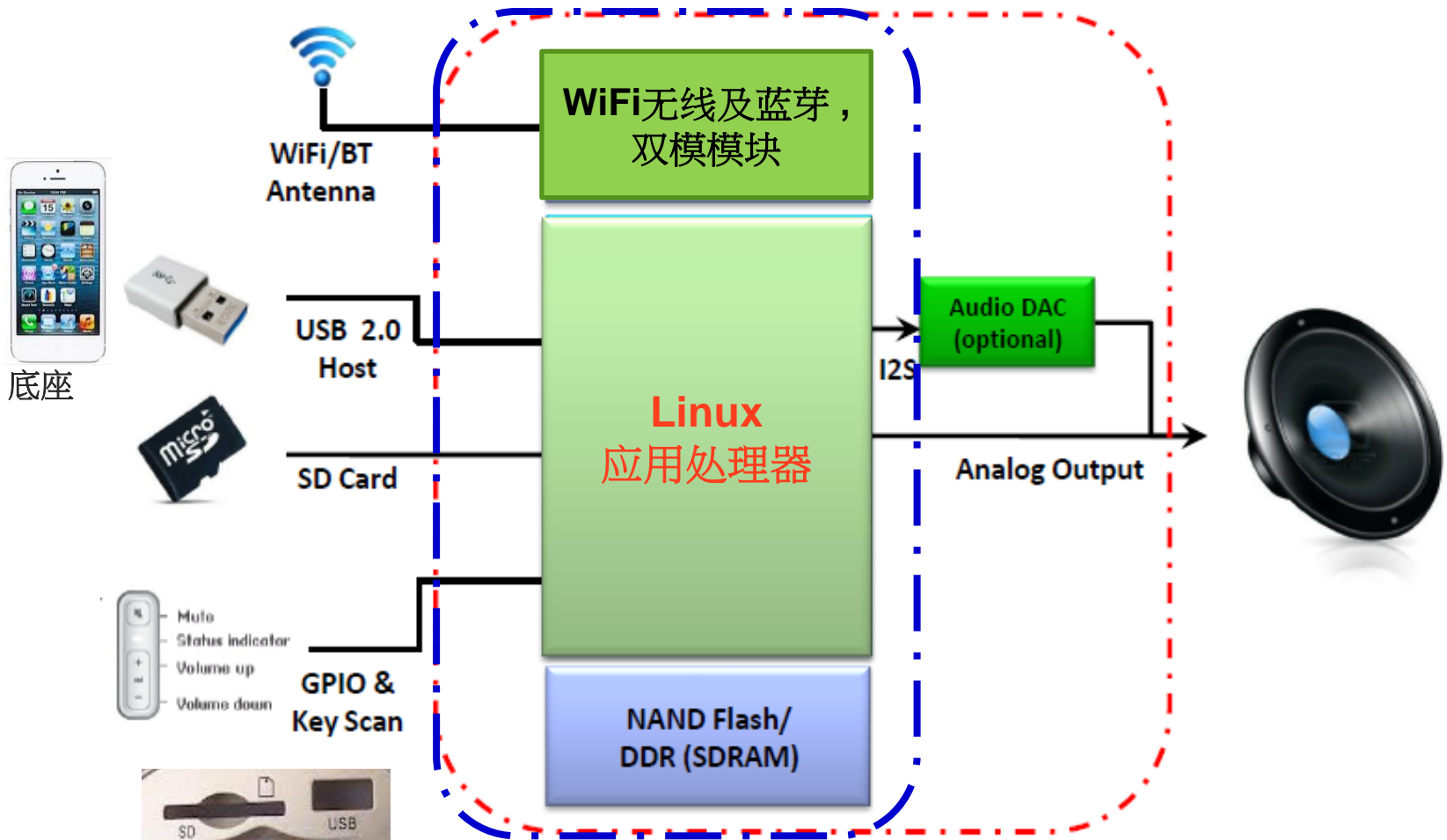


WiFi无线 DLNA/Airplay 设定





系统环境





模块外观介绍

1. size 36mm x 50mm

2. 48 pins 2.54mm Pin Header连接器



D101			
1	UART_RTS_N/EGPIO_12	KEYO_3	48
2	UART2_CTS_N/EGPIO_11	KEYO_2	47
3	UART2_TX	KEYO_1	46
4	UART2_RX	KEYO_0	45
5	GPIO_1	KEYI_3	44
6	GPIO_2	KEYI_2	43
7	GPIO_3	KEYI_1	42
8	GPIO_4	KEYI_0	41
9	GPIO_5/CP_RST	LED1	40
10	SD_D1	LED0	39
11	SD_D0	GPIO_6	38
12	SD_CLK	GND2	37
13	SD_VCC	I2S_SDO	36
14	SD_CMD	I2S_SDI(DACDAT)	35
15	SD_D3	I2S_WS(LRCK)	34
16	SD_D2	I2S_CLK(BCLK)	33
17	CP_VCC	XCLK1(MCLK)	32
18	GND0	I2C_SDA	31
19	OTG_DM	I2C_SCLK	30
20	OTG_DP	Linein_R	29
21	GND1	Linein_L	28
22	POWER_2	MUSIC_R	26
23	POWER_1	MUSIC_L	27
24	REST	GPIO_0	25



模块硬件规格.

界面

- USB Host –Pen driver and iPhone Docking
- SD Card
- Analog output (for Phone Jack)
- line in
- I2C (for control and authentication)
- I2S (for audio DAC)
- Key scan (4x4)
- GPIO (6 pin)
- Debug UART (4pin; 5V Vcc, TX, RX, GND)
- LED (Status LED x3)
- USB Device
- ReSET
- DC 5V Power In





模块规格

- **Comprehensive connectivity solutions**
 - Processors, modules, software, designs
 - Cost effective, feature rich WiFi/Bluetooth audio solutions
- **Featuring full support for AirPlay music streaming/control**
 - Supports iTunes streaming and control over WiFi network
 - Supports streaming from iOS devices(iPhone, iPad, iPod touch)
- **DLNA 1.5, uPnP, interoperability**
 - Connect, control, stream from PCs and uPnP devices
 - Interoperable DMR support
- **Bluetooth A2DP support**
 - Supports standard A2DP music play
 - Support A2DP AAC music from iOS devices
- **USB, SD Card local media playback**





规格

System	
中央处理器速度	520MHz
操作系统	Linux 2.6.32
Flash I/F	Nand -1Gb
DDR I/F	M DDR1 -512Mb
S/PDIF	Yes (Support by External DAC)
I2S output	Yes
WiFi	
802.11 b/g/n	Yes
多室音响拨放	Sep., 2014
Bluetooth	
Bluetooth 4.0	Yes, AAC
多人连接	8 + 1 users





主要功能

Main Functions	
DLNA	Yes, DMR1.5 and above
同网络多喇叭输出	Yes
多室音响广播	June, 2014
Air Play	Yes
Apple Docking (through USB)	yes
App Remote Control	Yes
音量控制	16 steps (HW)
软件升级	SD/USB Card
均衡器(Internal)	June 2014
网络电台	By ODM Demand
SD / MD Card	Yes
控制按键	Yes
Apps	Customized





Thanks

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