

RTL8762 小蜜蜂 BLE 开发板简介 V0.1

RTL8762 是 realtek 针对 IOT 应用推出的一款重磅级 BLE SOC

瑞昱物联网解决方案：BLE 瑞昱小蜜蜂 (RTL8762A)

BEE 瑞昱小蜜蜂(RTL8762A)是一颗低成本、高整合的低功耗蓝牙单芯片，内嵌 ARM Cortex M0、256KB eFlash、80KB RAM、及提供丰富的周边接口，让客户可以快速、简易完成物联网终端产品。瑞昱小蜜蜂非常适合单模低功耗蓝牙应用，可广泛应用于穿戴式设备、电视遥控器、Beacon、HID Device、家庭自动化等物联网之产品。

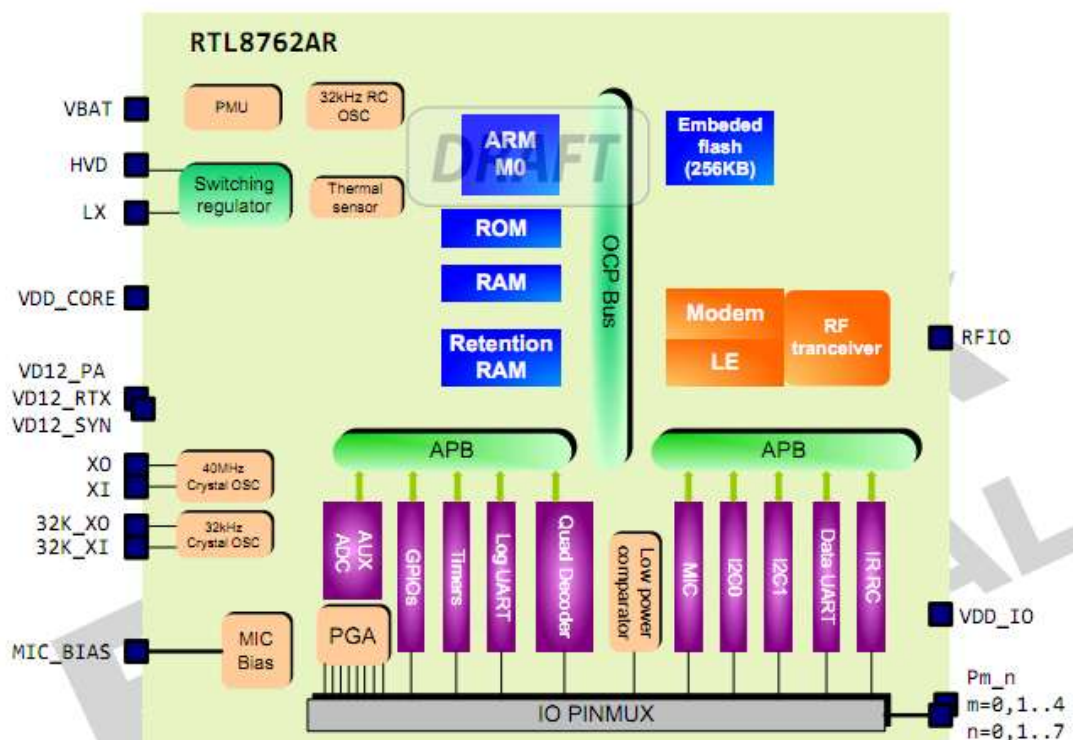
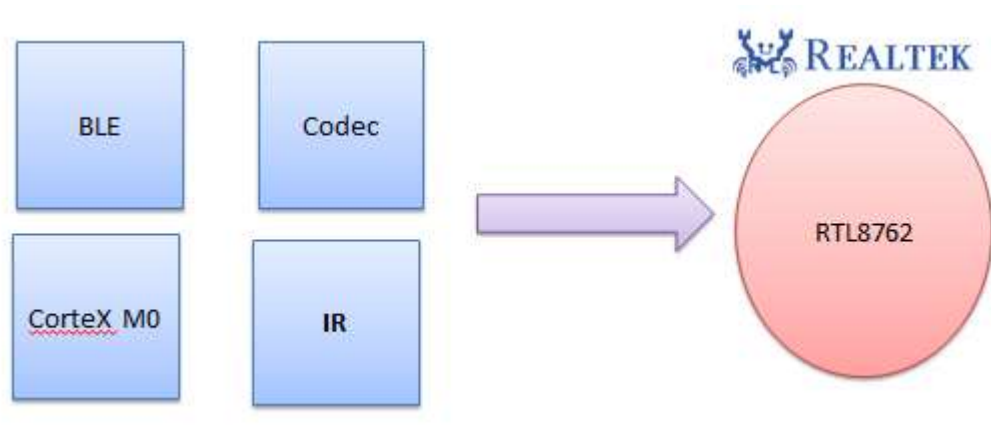
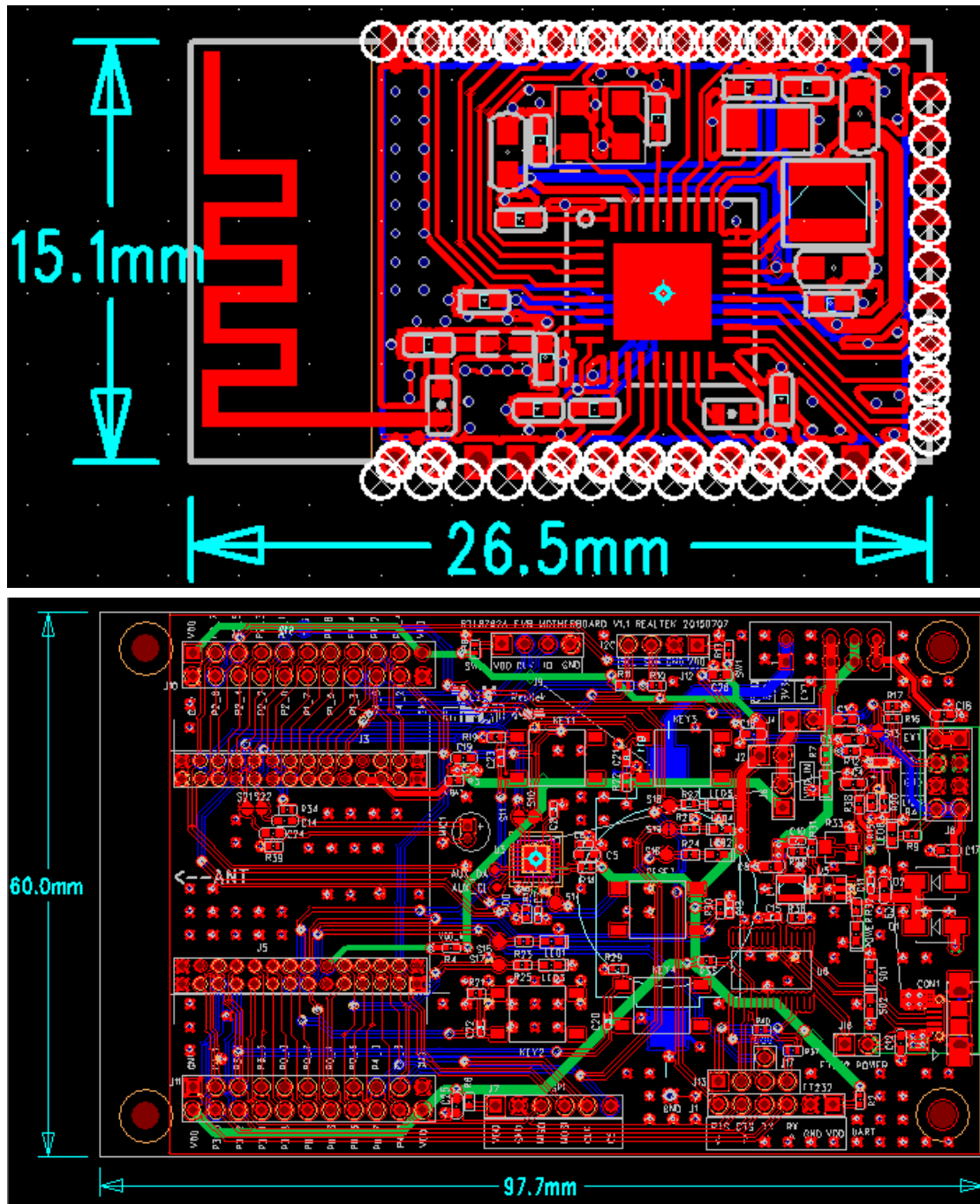


Figure 1. Block Diagram

General	
<ul style="list-style-type: none"> ■ Ultra low power consumption with intelligent PMU ■ Supports Bluetooth 4.2 core specification ■ Integrated MCU to execute Bluetooth protocol stack ■ Supports multiple level Low Energy states ■ Supports LE L2CAP Connection Oriented Channel Support ■ Supports LE low duty directed advertising ■ Supports LE data length extension feature ■ Supports OTA (Over-the-Air) programming mechanism for firmware upgrade ■ Supports internal 32KHz OSC or external 32KHz clock input for low power mode ■ Supports GAP, ATT/GATT, SMP, L2CAP ■ Generic Applications for GAP Central, Peripheral, Observer and Broadcaster Roles 	<ul style="list-style-type: none"> ■ Supports AES128/192/256 encrypt/decrypt engine
Bluetooth Transceiver	
	<ul style="list-style-type: none"> ■ Fast AGC control to improve receiving dynamic range ■ Supports Bluetooth Low Energy PHY
Peripheral Interfaces	
	<ul style="list-style-type: none"> ■ Flexible General Purpose IOs (15GPIOs with 32QFN) ■ Three configurable LED pins ■ Hardware Keyscan and Quad-decoder
Platform	
<ul style="list-style-type: none"> ■ ARM Cortex-M0 (Maximum 52MHz) ■ 256KB embedded flash ■ 80KB RAM ■ 2KB eFUSE 	<ul style="list-style-type: none"> ■ Embedded IR transceiver ■ Real-Time Counters (RTC) ■ Supports 3wire/2wire SPI ■ Supports Low power comparator ■ Timers x 8 ■ I2C x 2 ■ PWM x 4 ■ Supports 40MHz XTAL ■ Supports audio ADC for voice command application
Package	

IN-WIFI 小蜜蜂物联应用团队，针对 RTL8762/CC254X 方案退出小蜜蜂系列开发板。完全兼容 TI cc254x Realtek RTL8762 系列核心板。

2 月会登陆与非网，摩尔吧等电子平台开启预售



全部的资料会完全开源，在百度云盘上公布(请把链接复制到浏览器地址栏):

<http://pan.baidu.com/s/1hrb356O>

名称	修改日期	类型
Application	2015/12/16 20:18	文件夹
Profile	2015/12/16 20:17	文件夹
BlueAPI.chm	2015/12/16 20:17	编译的 HTML 帮...
BlueAPI.pdf	2015/12/16 20:17	PDF 文件
Client Interface Design.pdf	2015/12/16 20:17	PDF 文件
Profile Interface Design.pdf	2015/12/16 20:17	PDF 文件
RTL8762A API Reference.chm	2015/12/16 20:17	编译的 HTML 帮...
RTL8762A Application Firmware OTA Update User Manual.pdf	2015/12/16 20:17	PDF 文件
RTL8762A Deep Low Power State.pdf	2015/12/16 20:17	PDF 文件
RTL8762A GAP API User Manual.pdf	2015/12/16 20:17	PDF 文件
RTL8762A IO Initialization Guide.pdf	2015/12/16 20:17	PDF 文件
RTL8762A Memory User Guide.pdf	2015/12/16 20:17	PDF 文件
RTL8762A SDK Profile Structure Introduction.pdf	2015/12/16 20:17	PDF 文件
RTL8762A SDK User Guide.pdf	2015/12/16 20:17	PDF 文件
Simple BLE Client.pdf	2015/12/16 20:17	PDF 文件
Simple BLE Service.pdf	2015/12/16 20:17	PDF 文件

Bee1_SDK_1.0.8505 > RTL8762 > Source > Application >		
名称	修改日期	类型
Beacon	2015/12/14 9:34	文件夹
DataTransWithoutDirectio	2015/12/14 9:34	文件夹
Keyboard	2015/11/26 14:44	文件夹
Mouse	2015/11/26 14:44	文件夹
OTADemo	2015/12/14 9:34	文件夹
Proximity	2015/12/16 12:48	文件夹
SimpleBLECentralApp	2015/12/3 17:21	文件夹
SimpleBLEPeripheralApp	2015/12/14 9:34	文件夹
WristbandForRelease	2015/12/14 9:34	文件夹

全部官方源代码：

