

厂家

厂家 芯片	
厂家 公司名称 Dialog Semiconductor plc .  简介 a leading provider of battery management, AC/DC power conversion, Wi-Fi[®], Bluetooth[®] low energy and Industrial ICs 网址 www.dialog-semiconductor.com 国家 美国 品牌 戴乐格	
芯片 内核 - 尺寸 UART 电流 兼容标准 简述 调试 DSP RAM 音频控制 晶振 32 MHz 电源失效 no	

Wifi

802.11n (Wi-Fi 4)

AoA/AoD

频率

同步串行接口

传感器控制器

接收器灵敏度

- 98.5 dBm

升级方式

Manual

封装型式

-

DSP技术

概要

PLL时钟

no

I2S

名称

DA16600

Flash (kB)

4MB

I2C

支持

待机

输出功率

+18.5 dBm

CPU时钟频率

针脚

DSP时钟速度

特性

802.15.4 (Zigbee, Thread)

可选晶振

no

PDM

LE Audio

类型

蓝牙低功耗+Wifi
蓝牙版本

5.1
I2S

支持
射频规范

CPU特性

针距

RC时钟

32KHz RTC Crystal for Wi-Fi
PWM

品牌

戴乐格
SRAM (kB)

实时时钟

no
CPU构造

通道

外部时钟

no
协议

-
RADIO

SAADC

国家

美国
EEPROM (kB)

加密加速计

可编程通道

看门狗计数器

no
TWI

no
蓝牙5性能

-
SPIM

NFC标签

SPI

1

公钥硬件加速器

固定通道

QDEC

-

蓝牙5.1支持

Yes

SPIS

CMP

概述

DA16600 modules provide a convenient way to add both low power Wi-Fi and low power BLE functionality to your device. The low power Wi-Fi DA16200 SoC and the low power BLE DA14531 SoC are integrated together on a single module. Together they deliver long battery life and low power consumption in a convenient form factor. As a single integrated system, functions such as Wi-Fi/BLE coexistence and provisioning Wi-Fi through the BLE connection come standard.

The modules are complete with all required components and are regulatory certified by the FCC, IC, CE and other regulatory bodies.

Features

- Low Power Wi-Fi
- Low Power BLE
- Ultra Low Power
- Wi-Fi/BLE Coexistence
- Superior Range
- Full Offload
- Simple Setup & Provisioning
- Complete Software Stack
- Leading Security
- OTA Firmware Update
- Multiple I/Os

Benefits

- VirtualZero™ DA16200 SoC
- 802.11n 1x1 low power 2.4 GHz
- Up to 72 Mbps, MCS0-7
- SmartBond TINY™ DA14531 SoC
- BT5.1 compliant BLE
- Enables year-plus battery life
- Breakthrough VirtualZero low power technology
- Virtually no power consumption in sleep state
- Ultra low power sensor wake-up

- Runs on small batteries and coin cells
- Built in, customizable, coexistence algorithms
- Wi-Fi: Industry leading output power and Rx sensitivity for max range
- BLE: 4x range of BT 4.0
- SoC runs full OS & TCP/IP stack on module
- Provision Wi-Fi connection simply with BLE
- Automatically find & configure new devices w/ smartphone app
- Comprehensive networking software stack
- Secure boot □Secure debug □Secure asset storage □Hardware accelerated □TLS □Digital certificates □Elliptic curve
- Enables field deployed device firmware updates
- UART, SPI, ADC, I2C, PWM, I2S, GPIOs, JTAG and SWD

On Board Chip Antenna

14.2 mm x 24.6 mm x 3.0 mm

External Antenna connector (u.FL)

14.2 mm x 24.6 mm x 3.0 mm

GPIO

加速器

通道组

PDM

-

安全

TWIM

特性

.Wi-Fi SoC: .DA16200

.BLE SoC: DA14531

.4MB Flash memory

.40MHz Crystal for Wi-Fi

.32KHz RTC Crystal for Wi-Fi

.32MHz Crystal for BLE

.Chip antenna or u.FL connector

.SPDT Antenna Switch

.Single power .supply voltage (3.3V)

CAN

真随机数发生机器

USB

no

TWIS

方框图



CAN FD

监控器

SPI

1

UARTE

RAM(KB)

应用说明

.Thermostats .Door locks .Security cameras .Video door bells .Temperature .sensors .Smoke detectors .Other wireless sensors .Garage door openers .Pet trackers .Asset trackers .Home automation .Commercial .Industrial .Residential

人机界面

-

Quad SPI

-

NFCT

开发板

安全模块

调试界面

-

LDO

no

USBD

数据手册

[da16600_module_product_brief_20.04.28.pdf](#)

时钟 [数量, 位]

no

VBUS

no

QSPI

PWM [数量, 位]

1

图片

可调供电输出

-
ADC [数量, 位]

价格

0.00

DAC [数量, 位]

1 Wi-Fi, 3 BLE

元

□
电压 [最小~最大] (V)

3.3

评分

no 

模拟组件

no

环境温度 (最小~最大) (°C)

低功耗组件

no

缓存

-
结温(最小~最大) (°C)

温度传感器

no