


Manufacture

<div><div><div></div><div>Manufacture</div></div><div><div></div><div>Chips</div></div></div>	<div><div>Manufacture Name</div><div>broadcom</div><div>Logo</div><div></div><div>Intro</div><div><p>Broadcom Inc. is a global infrastructure technology leader built on 50 years of innovation, collaboration and engineering excellence.</p><p>With roots based in the rich technical heritage of AT&T/Bell Labs, Lucent and Hewlett-Packard/Agilent, Broadcom focuses on technologies that connect our world. Through the combination of industry leaders Avago Technologies, LSI, Broadcom Corporation, Brocade and CA Technologies, the company has the size, scope and engineering talent to lead the industry into the future.</p><p>Broadcom is focused on technology leadership and category-leading semiconductor and infrastructure software solutions. The company is a global leader in numerous product segments serving the world's most successful companies.</p><p>Broadcom Inc. combines global scale, engineering depth, broad product portfolio diversity, superior execution and operational focus to deliver category-leading semiconductor and infrastructure software solutions so its customers can build and grow successful businesses in a constantly changing environment.</p></div><div>Website</div><div>www.broadcom.com</div><div>Country</div><div>美国</div><div>Brand</div><div>博通</div></div>
<div><div>Chips</div><div>Core Type</div><div>-</div><div>Dimension</div><div>UART</div><div>Current</div><div>Transceiver Compatible</div></div>	

.Full IEEE 802.11a/b/g/n legacy compatibility with enhanced performance □Single spatial stream up to a 72 Mbps data rate IEEE 802.11n beamforming support

Intro

Debugging

DSP RAM

Voice Services

Crystal

no

Power fail

no

Wifi

802.11n (Wi-Fi 4)

AoA/AoD

Operating Frequency [Max] (MHz)

SSI

Sensor Controller

Receiver Sensitivity

Upgrade Type

Manual

Package Type

-

DSP Technology

General

on chip (PLL)

no

I2S

Chip Name

BCM43013

Flash (kB)

I2C

-

Standby

Output Power

CPU Clock Speed

Pins

DSP Clock Speed

Features

802.15.4 (Zigbee, Thread)

crystal (optional)

no

PDM

LE Audio

Type

蓝牙低功耗+Wifi

Bluetooth Version

5.0

I2S

no

Frequency Regulation

CPU Features

Pitch

on-chip RC

no

PWM

Brand

博通

SRAM (kB)

Real-Time Clock

no

CPU Architecture

Channels

External clock

no

Protocols

-

RADIO

.TX and RX low-density parity check (LDPC) support for improved range and power efficiency

SAADC

Country

中国

EEPROM (kB)

Crypto Accelerator

WPA and WPA2

Programmable channels

Watchdog timer

no

TWI

no

Bluetooth 5 PHYs

-

SPIM

NFC Tag

SPI

Public Key Hardware Accelerator

Fixed channels

QDEC

-

bluetooth 5.1 support

-

SPIS

CMP

Overview

BCM43013是Broadcom的一款适用于移动平台和附件的超低功耗802.11n Wi-Fi和蓝牙5.0组合芯片。与Broadcom之前的combo芯片相比，BCM43013的电池寿命延长了3倍，使OEM能够设计出新一波高性能连接设备。

BCM43013允许OEM将Wi-Fi集成到传统上仅由蓝牙供电的平台中，因为电池尺寸或电力预算有限。在某些应用中，BCM43013 Wi-Fi比当今最常见的蓝牙解决方案节省80%的电量。Wi-Fi功耗的显著降低，使OEM能够利用增加的吞吐量和Wi-Fi范围，在各种设备中提供新的用法。

GPIO

Accelerator

Channel groups

PDM

-

Security

AES engine, TKIP

TWIM

Features

.Full IEEE 802.11a/b/g/n legacy compatibility with enhanced performance

. Single spatial stream up to a 72 Mbps data rate

- .IEEE 802.11n beamforming support
- .TX and RX low-density parity check (LDPC) support for improved range and power efficiency
- .Complies with Bluetooth Core Specification Version 5.0 with provisions for supporting future specifications
- .Bluetooth Class 1 or Class 2 transmitter operation
- .Low power consumption improves battery life of handheld devices
- .Supports extended synchronous connections (eSCO) for enhanced voice quality by allowing for retransmission of dropped packets
- .Supports multiple simultaneous Advanced Audio Distribution Profiles (A2DP) for stereo sound
- .Adaptive frequency hopping (AFH) for reducing radio frequency interference
- .Security:
 - WPA and WPA2 (Personal) support for powerful encryption and authentication
 - AES and TKIP in hardware for faster data encryption and IEEE 802.11i compatibility

CAN

True Random Number Generator

USB

no

TWIS

Block Diagram

CAN FD

Monitor

SPI

no

UARTE

RAM(KB)

Application Note

802.11无线局域网解决方案

游戏设备

便携式音频/媒体/游戏设备

智能设备

可穿戴设备

无线耳机

无线扬声器

Human Machine Interface

-

Quad SPI

-

NFCT

Development Board

Security Modules

Debug interface

-

LDO

no

USBD

Datasheet

Timers [Number, bits]

no

On-chip VBUS

no

QSPI

PWM [Number, bits]

Image

Regulated supply for external components

-

ADC [Number, bits]

Price

0.00

DAC [Number, bits]

RMB

□

Supply Voltage [Min to Max] (V)

Rating

no 

Analog comp

no

Ambient Operating Temperature (Min to Max) (°C)

low-power comp

no

Cache

-

Junction Temperature (Min to Max) (°C)

Temperature sensor

no