

pcDuino

WIFI_PCDUINO IEEE 802.11 b/g/n WLAN – USB

Product Specifications

Model: WIFI_PCDUINO

VER:1.1A

DATE:2012/

VER:1.1A

DATE:2012/05

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1. Introduction

WIFI_PCDUINO is a WLAN module supporting IEEE 802.11 b/g/n standards with PH connector supporting USB 2.0. This is a low cost compact WLAN module designed in the product with embedded system for the wireless connectivity.

WIFI_PCDUINO supports RT5370.

1.1 Scope:

WIFI_PCDUINO WLAN Module is designed to operate in 2.4GHz ISM frequency band.

This Module complies with IEEE 802.11b/g/n standards.

1.2 Features

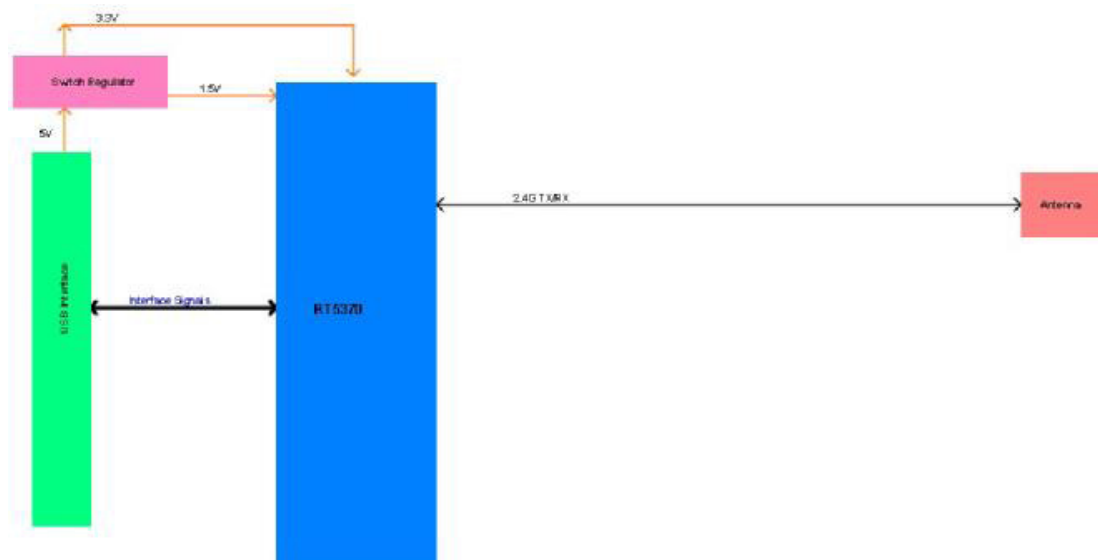
- 1T1R mode with 150Mbps with PHY rates for both transmit and receiving
- Dynamic data rate: Maximum data rate up to 150Mbps. 11n: Legacy, Mixed and Green Field
- modes, 11g: 54/48/36/24/12/9/6 Mbps (Auto Sensing); 11b:11/5.5/2/1 Mbps (Auto Sensing)
- support 20MHz/40MHz Bandwidth
- Security support for 64/128 bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK (TKIP/AES)
- Reverse Direction Grant Data Flow and Frame Aggregation

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- Cisco CCX Support
- USB2.0
- Operating Frequency 2.412GHz~ 2.484GHz
- Transmit Output Power: 802.11g 15+/-1dBm
- Receive Sensitivity 11b: -78dBm @ 11Mbps (Typical) ; 11g: -68dBm @ 54Mbps (Typical)
- Operating Voltage 3.3V
- Antenna Port Impedance 50ohm

2. Hardware Information

Block Diagram



RT5370:

Figure 1: System Block Diagram of WIFI_PCDUINO WLAN Module

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3. Operating System

Windows 2000 /XP/VISTA/Win7

Wince 5.0 & 6.0

Linux 2.6.x

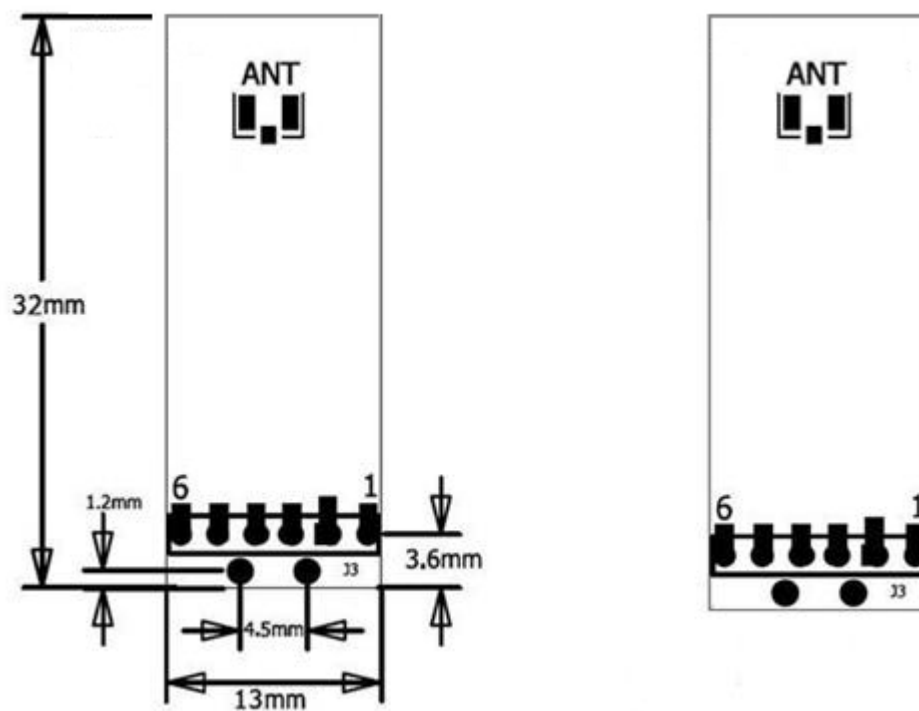
4. Mechanical Information

4.1 Dimensions

Size: 33mm(Length)x 13mm (Width) x8.5mm(Height)

Weight: 3g

Mechanical Drawing:



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Pin Definition

| | | | |
|---|---------|---|--------|
| 1 | | 5 | GND |
| 2 | 3.3V/5V | 6 | LED/RF |
| 3 | D- | | |
| 4 | D+ | | |

Remark:

The sixth feet for LED by default.

4.2 USB Connection Information

6 pin (pin to pin=2.54mm)

4.3 Antenna Connection Information

Internal ceramic antenna

5. Environment

| | |
|-----------------------|----------|
| Operating Temperature | 0°C~50°C |
|-----------------------|----------|

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| | |
|---------------------|------------------------|
| Operating Voltage | DC 3.3V |
| Storage Temperature | -40°C~70°C |
| Operating Humidity | 10%~90% non-condensing |
| Storage Humidity | 5%~90% non-condensing |

6. Product ordering information

WIFI_PCDUINO RT5370 CHIPSET, only support 802.11b/g/n, 3.3V voltage support