

# **IEEE 802.11 b/g/n WLAN – USB Product Specifications**

Model: CP316

VER:1.1A

DATE:2012/05

# 1 Introduction

CP316 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. CP316 both support RT5370

## 1.1 Scope:

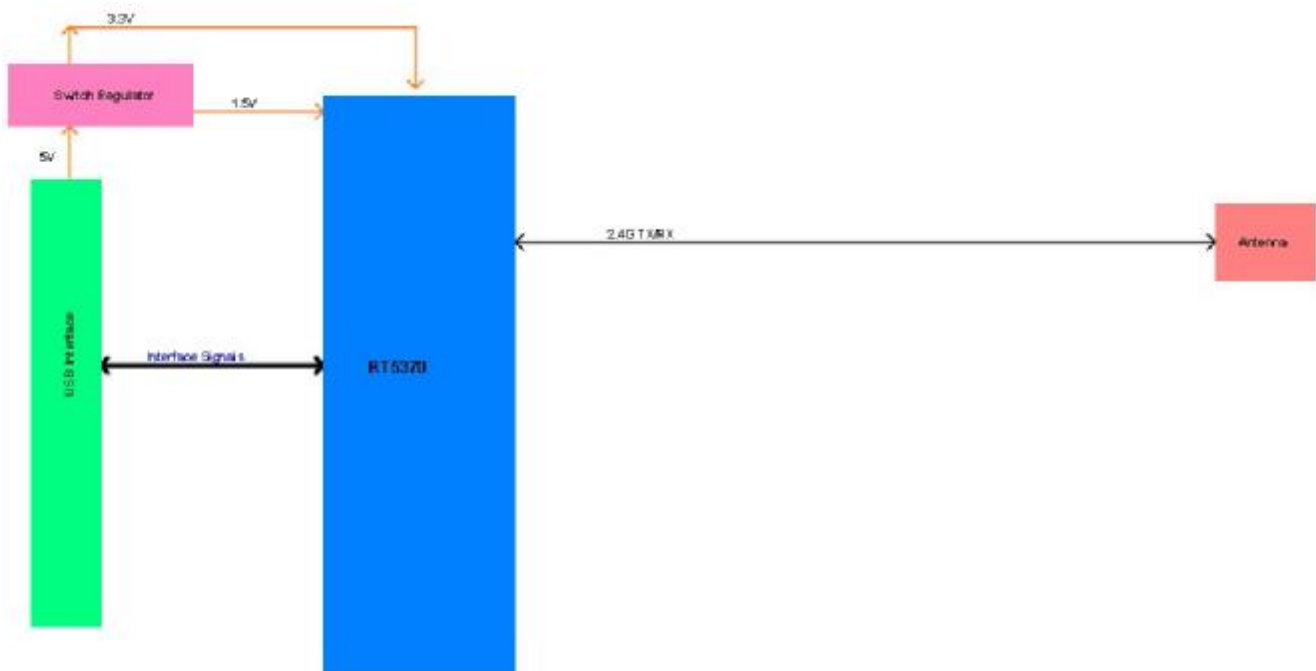
CP316 WLAN Module is designed to operate in 2.4GHz ISM frequency band. This Module complies with IEEE 802.11b/g/n standards.

## 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
- Cisco CCX Support
- USB2.0
- Operating Frequency 2.412GHz~ 2.462GHz
- Transmit Output Power: 802.11g 8+/-1dBm
- Receive Sensitivity 11b: -78dBm @ 11Mbps (Typical); 11g: -68dBm @ 54Mbps (Typical)
- Operating Voltage 5V
- Antenna Port Impedance 50ohm

## 2 Hardware Information

### Block Diagram



RT5370:

**Figure 1:** System Block Diagram of CP316 V1.1A WLAN Module

## 4 Operating System

Windows 2000 /XP/VISTA/Win7

Wince 5.0 & 6.0

Linux 2.6.x

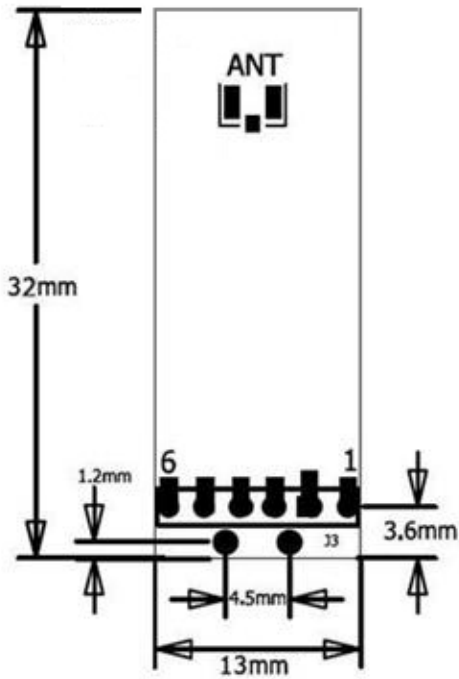
## 5 Mechanical Information

### 5.1 Dimensions

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

Weight: 3g

Mechanical Drawing:



#### Pin Definition

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

Remark:

The sixth feet for LED by default.

#### 5.2 USB Connection Information

6 pin (pin to pin=2.54mm)

#### 5.3 Antenna Connection Information

Internal ceramic antenna

## 6 Environment

Operating Temperature	0°C~60°C
Operating Voltage	DC 5V
Storage Temperature	-40°C~70°C
Operating Humidity	10%~90% non-condensing
Storage Humidity	5%~90% non-condensing

## 7. Product ordering information

CP316 V1.1A RT5370 CHIPSET, only support 802.11b/g/n, 5V voltage support

## Regulatory Information

The devices must be installed and used in strict accordance with the instructions as described in the user documentation that comes with the product.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

If the FCC identification number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module.

This exterior label can use wording such as the following: "Contains Transmitter Module FCC ID: A2TCP316"

When the module is installed inside another device, the user manual of this device must contain below warning statements:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.