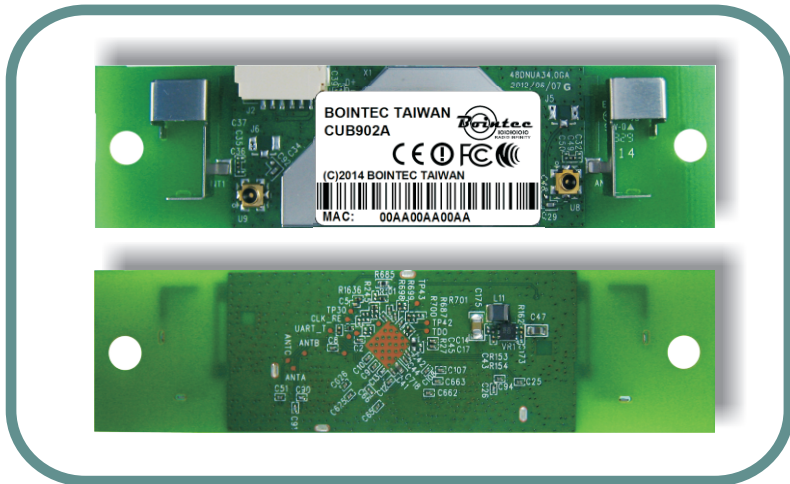




CUB902A

IEEE 802.11a/b/g/n WiFi-USB Industrial Module



Ultra Dual-Band 2.4GHz/5GHz Industrial Module

Introduction of Products

Taijet Bointec CUB902A is a WLAN module supporting IEEE 802.11 a/b/g/n standard with USB interface. It is truly a cost-effective solution for the current wireless market with the powerful performance.

Besides, CUB902A possesses the dual band features and 2X2 MIMO technology (2T2R). Moreover, it can achieve the max throughput of 300Mbps based on its comprehensive modulation technique.

Taijet Bointec CUB902A provides a easy design for various environment such as household appliances, industry, consumer and automobile applications. It contains two PIFA antenna on the module and reserve two RF connector for external antenna. It is convenient for all users to use two screw holes on the module in order to assemble on customer's host board or custom boards.

Based on the compact size module and robust setup scheme, CUB902A provide those advantages to enhance the value of our customer's target product. In addition, Taijet Bointec CUB902A is competent solutions in critical environments. All in all, Bointec CUB902A definitely provides a comprehensive WLAN solutions based on its great features.

Product Highlight

- Industrial grade WiFi module
- IEEE 802.11 a/b/g/n, 5GHz and 2.4GHz bands
- HT20/HT40 and dual band of 2.4GHz and 5GHz
- Supporting 2X2 MIMO Technology
- Data Rate
 - 802.11a: 6, 9, 12, 24, 36, 48, 54Mbps
 - 802.11b: 1, 2, 5.5, 11Mbps
 - 802.11g: 6, 9, 12, 24, 36, 48, 54Mbps
 - 802.11n: Support PHY rate up to 300Mbps.
- Host Interface: USB2.0
- Antenna: 2 PIFA antenna or extend antenna supported
- Operating Voltage: 5V DC, +/- 9%
- RoHS compliant



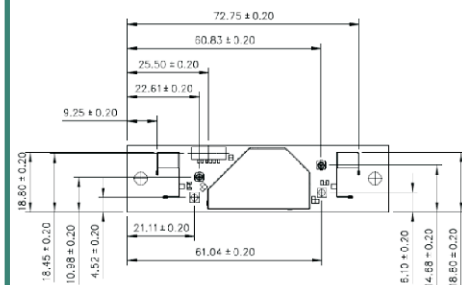
Specification

Feature	Specification
General	
Main Chipset	QualComm Atheros AR9374X-BL3D
Frequency band	2.4GHz and 5GHz
Bandwidth	20MHz, 40MHz
Channel Spacing	5MHz
Antenna	<ul style="list-style-type: none"> • 2 printed antenna on the module board (2T2R) • Reserved two IPEX connector footprints for external antenna
Operation Frequency	<ul style="list-style-type: none"> • USA: 2.400 ~ 2.483GHz, 5.15 ~ 5.35GHz, 5.47 ~ 5.725GHz, 5.725 ~ 5.85GHz. • Europe: 2.400 ~ 2.483GHz, 5.15 ~ 5.35GHz, 5.47 ~ 5.725GHz • Japan: 2.400 ~ 2.497GHz, 5.15 ~ 5.35GHz, 5.47 ~ 5.725GHz • China: 2.400 ~ 2.483GHz, 5.725 ~ 5.85GHz
Interfaces	Interface Standard : USB 2.0
WiFi	
Standard	IEEE 802.11 a/b/g/n standard
Security	64 bit, 128 bit, 152bit WEP Encryption
	802.1x Authentication
	AES-CCM & TKIP Encryption
Dimensions	
PCB Dimension	82 mm x 21 mm x 1mm, 4 Layer, FR4
Temperature	
Operation Temperature	-5 °C ~ 70 °C
Storage Temperature	-40 °C ~ 70 °C
Humidity	
Operation Humidity	15%~85% without condensation
Storage Humidity	• Non operating: 5% ~ 90% without condensation.
	• Under shipment: 8% ~ 90% without condensation.
Power Consumption	
Power	5V DC +/- 9%, max.
Power consumption @ 25°C	Continuous Tx (2.4GHz) 424 Average (mA), Typical
	Continuous Rx (2.4GHz) 120 Average (mA), Typical
	Continuous Tx (5GHz) 550 Average (mA), Typical
	Continuous Rx (5GHz) 130 Average (mA), Typical
	Power Saving 50 Average (mA), Typical
Stand by	130 Average (mA), Typical
Modulation Technique	• 802.11 Legacy a/b/g
	DSSS (DBPSK, DQPSK, CCK)
	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)
	DSSS (Direct Sequence Spread Spectrum) with
	DBPSK (Differential Binary Phase Shift Keying 1Mbps),
	DQPSK (Differential Quaternary Phase Shift Keying 2Mbps), and
	CCK (Complementary Code Keying 5.5&11Mbps), and
	OFDM (Orthogonal Frequency Division Multiplexing with BPSK for 6,9Mbps · QPSK for 12,18Mbps · 16QAM for 24,36Mbps · 64QAM for 48, 54Mbps)
	• 802.11n a/g
	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)
MCS0~15 data rates.	
HT20 and HT40 modes.	

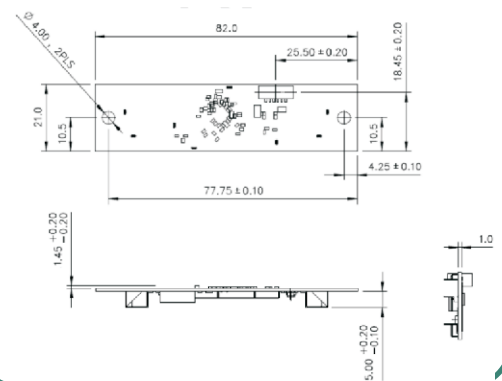
Product quick glance



ME Drawing/placement



ME Drawing/placement



We are Your Partner more than Business



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