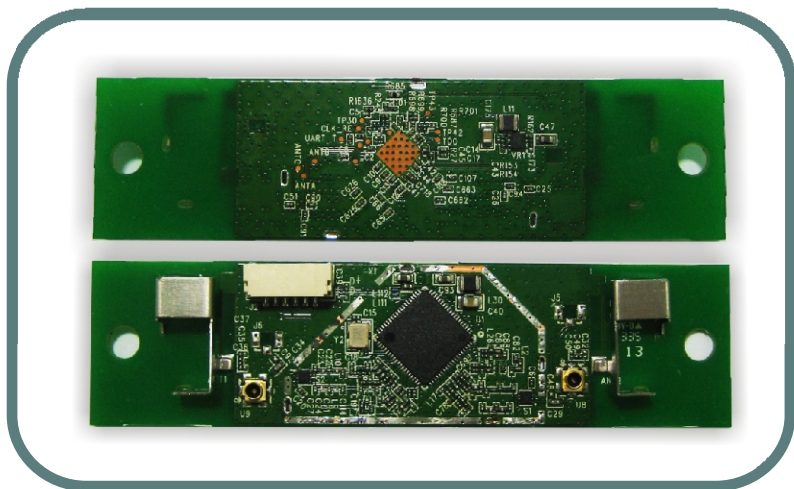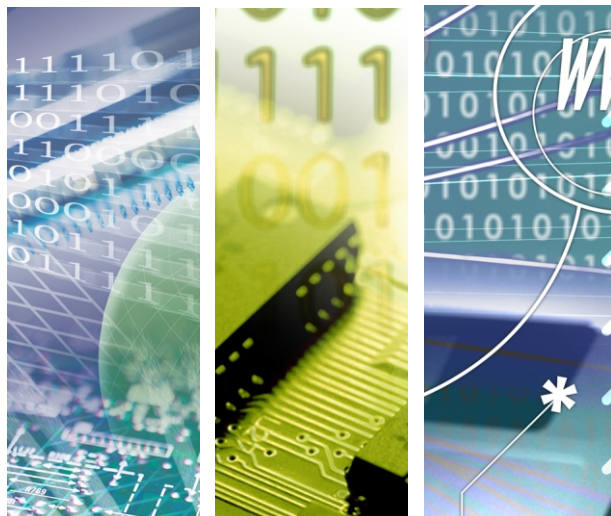# CUB902A
IEEE 802.11a/b/g/n WiFi-USB industrial module

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 by the USB 2.0 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. The operation temperature is -5~70 degree C. As for the storage temperature can achieve -40~70 degree C. All in all, Bointec CUB902A definitely provides a comprehensive WLAN solutions based on its great features.
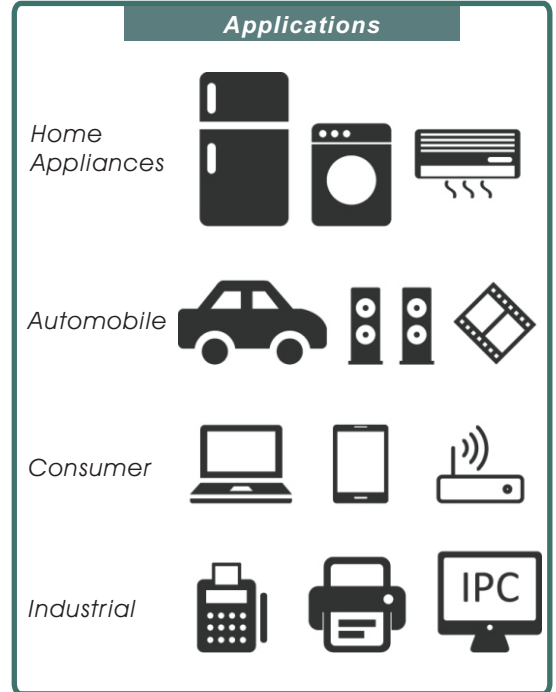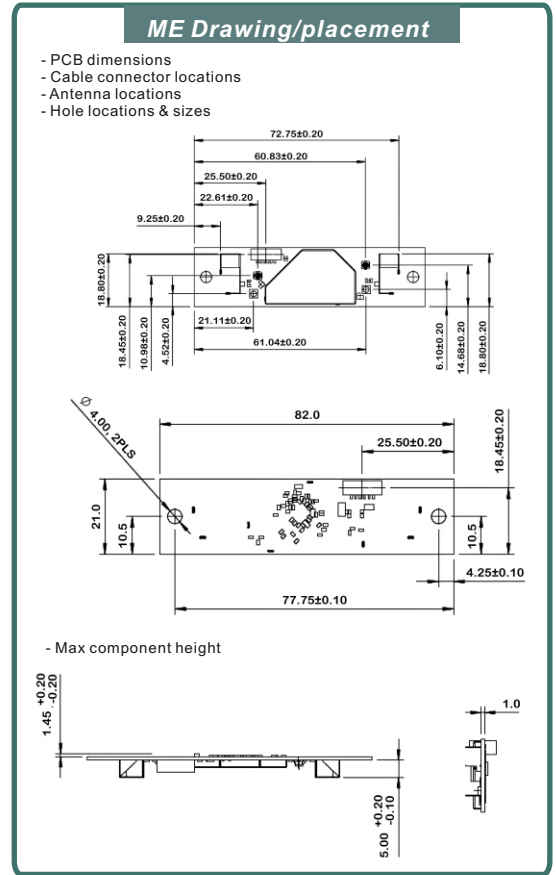
Product Highlight

- Current sophisticated WiFi module with a compact size in the market
- Support IEEE 802.11 a/b/g/n based on 2.4GHz and 5GHz
- Cost-effective solution
- Robust Design for assembling on host boards or custom boards
- Support industry and consumer criteria
- Household Appliances and Automobile Applications
- USB2.0 interface applications
- Completed DK package

BOINTEC WIFI CUB902A ENG v0.2

Specification:

Feature	Specification	Notes
General		
Frequency band	2.4GHz and 5GHz	
Bandwidth	20MHz, 40MHz	
Channel Spacing	5MHz	
Antenna	• Two PIFA Antenna on the module • Reserved two RF connectors for external antenna.	
USB2.0 Interface		
	5V D- D+ GND WoW GND	
Pin 1	5V	
Pin 2	USB Data-	
Pin 3	USB Data+	
Pin 4	GND	
Pin 5	WoW	
Pin 6	GND	
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 ℃ ~ 70 ℃	
Storage Temperature	-40 ℃ ~ 70 ℃	
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.	
Certificate		
RoHS		

ME Drawing/placement

- PCB dimensions
- Cable connector locations
- Antenna locations
- Hole locations & sizes

- Max component height

Applications

Home Appliances

Automobile

Consumer

Industrial

Order Information:

Taiject Bointec CUB902A	Description
CUB902A DK Package	1. One CUB902A Entity 2. Two 2.4GHz/5GHz External Antenna 3. Two antenna cable 4. One custom USB cable 5. CD(including user manual and driver)
CUB902A Entity	One CUB902A Entity

Bointec Authorized Distributer