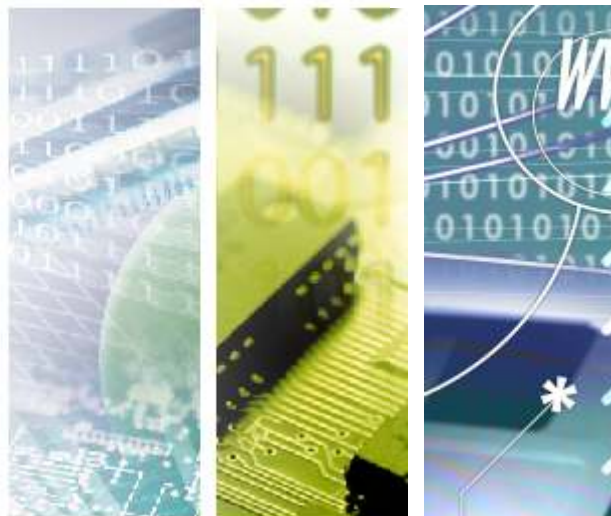




CUB805K

IEEE 802.11b/g/n Wi-Fi-USB industrial module



CUB805K

The cost effective industrial wireless LAN solution

Introduction of Products

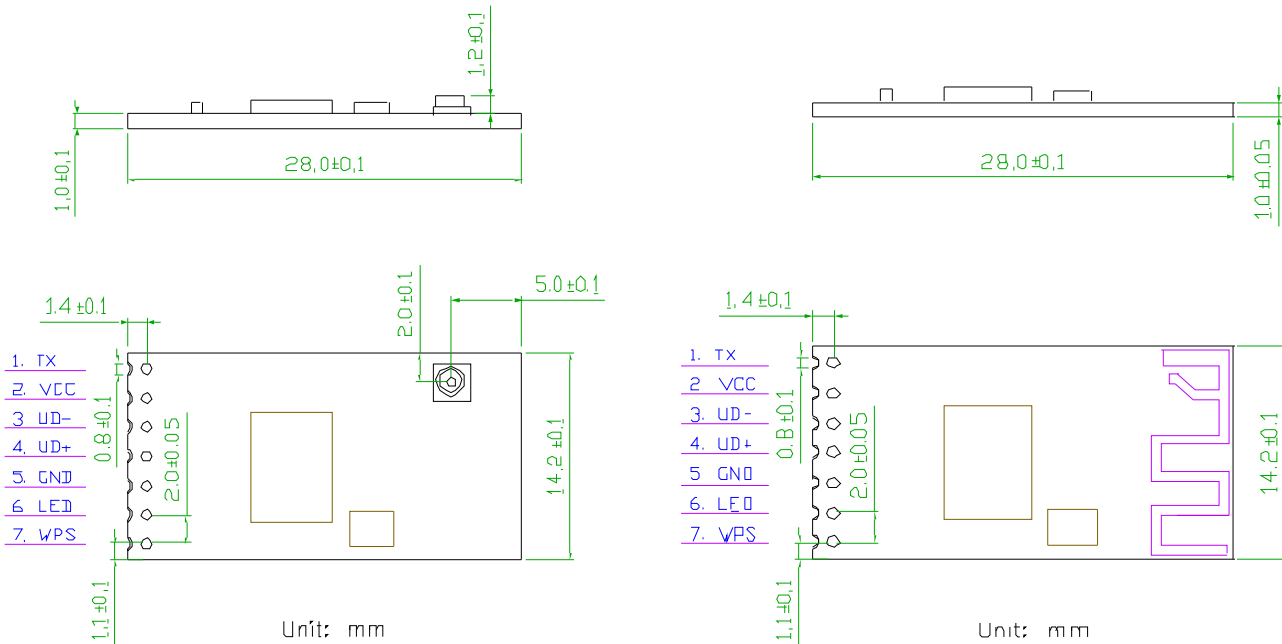
BOINTEC CUB805-K is a WLAN module supporting IEEE 802.11 b/g/n standards with 6-pin connector supporting USB 2.0 /1.1 interface. This is a small form factor and low cost compact WLAN module designed for the wireless connectivity of products with embedded system. This module operates in 2.4GHz ISM frequency band, it applies a highly integrated MAC/BBP and RF single chip RT5370 with 150Mbps PHY rate supporting. This module can be built-in other embedded applications such as IP Camera, IP set top box, GPS, Internet radio apparatus, it can be directly soldered on a main PCB.

Bointec CUB805-K implements half-duplex OFDM, CCK and DSSS base-band processing supporting IEEE 802.11b/g/n data rates. The MAC supports the IEEE 802.11 wireless MAC protocol as well as 802.11i security, receive and transmit filtering, error recovery, and quality of service (QoS). CUB601-K also supports software based Wi-Fi Protected Setup (WPS). Simply enable the WPS feature from the WIFI software and your device will automatically setup the WIFI security with a compatible WPS wireless router. Setting up a secure wireless network has never been so easy.

Product Highlight

- ? 1T1R Mode with 150Mbps PHY Rate for Both Transmit and Receiving.
- ? Legacy and High Throughput Modes
- ? 20MHz/40MHz Bandwidth
- ? Reverse Direction Grant Data Flow and Frame Aggregation
- ? WEP 64/128, WPA, WPA2, TKIP, AES
- ? QoS-WMM, WMM-PS
- ? WPS, PIN, PBC
- ? Multiple BSSID Support
- ? USB 2.0 bus, miniPCI express mechanical interface
- ? International Regulation - 802.11d + h
- ? Diversity, 2 IPEX antenna
- ? Low Power with Advanced Power Management
- ? Operating Systems - Windows XP 32/64, 2000, Vista 32/64, Linux, Macintosh, Win CE6.0/7.0

Standards	IEEE802.11b/g/n (1T1R mode)
Operating Frequency	2.412GHz ~ 2.4835GHz. the CH14 can be made upon request.
Protocols	802.11b: CCK, QPSK, BPSK, 802.11g/n: OFDM
Antenna	External antenna Via I-PEX MHF receptacle or Built-in On Board
Security	WPA/WP2/WPAI, 64/128/152-bit WEP, WPS
Transmit Output Power (Typical value to antenna)	11b: 17±1.0dBm @ 11Mbps; 11g: 14±1dBm @ 54Mbps
	802.11n: (HT20), 12+/-1dBm, 802.11n: (HT40), 12+/-1dBm
Receive Sensitivity (Typical value without antenna)	11b: -84dBm @ 11Mbps; 11g: -72dBm @ 54Mbps.
	802.11n: (HT20), -68dBm@MSC7, (HT40), -67dBm@MSC7
Operating Voltage	5.0V or 3.3V DV± 5%
Operating Current (OFDM, 54Mbps)	5.0V power input, <150mA; 3.3V power input, <250mA
Bus Interface	USB 2.0/1.1
USB Interface	Max: 7 pins, 2.0 mm pitch pin header. Or Max: 7 pins semi-hole.



BOINTEC TAIWAN CO LTD
 1F, #3, A20, L790, SEC. 5, CHUNGHSIAO E. RD., TAIPEI 110, TAIWAN
 TEL: +886-2-2759-0081 FAX: +886-2-2759-1659
 WWW.BOINTEC.COM

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