CUB601K

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

The cost effective industrial wireless LAN solution

Introduction of Products

BOINTEC CUB601-K is a WLAN module supporting IEEE 802.11 b/g/n standards with 6-pin connector supporting USB 2.0 interface. This is a low cost compact WLAN module designed in products with embedded system for the wireless connectivity. This Module is designed to operate in 2.4GHz ISM frequency band, it applies a highly integrated MAC/BBP and RF single chip RT3070 with 150Mbps PHY rate supporting. It fully complies with IEEE802.11n draft 3.0 and IEEE802.11b/g feature.

Bointec CUB601-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

■ Specification

Physical	
Dimensions	40.0mm x 18.0 mm x 5.6mm
Package	Module Size, with mounting hole
Temperature	operation, -20~+70? Store, -30~+85? .
Chipset Solution	
Chipset	Ralink RT3070 Single Chip
Host Interface	USB 1.1/2.0
Standards	Complies with IEEE 802.11b/g and compatible to IEEE 802.11n draft 2.0(150 Mbps Wireless LAN)
Radio	
Frequency Bands	2.4000~2.4835GHz
RF Transmit Power	802.11b: 16dBm, ± 1.5 802.11g: 14dBm, ± 1.5 802.11gn, HT20: 13dBm, ± 1.5 @ 72Mbps 802.11g HT40: 11dBm, ± 1.5 @ 150Mbps
F Receive Sensitivity	802.11b: -76dBm, ± 1.5 @ 11Mbps 802.11g: -67dBm, ± 1.5 @ 54Mbps 802.11gn, HT20: -64dBm, ± 1.5 @ 72Mbps 802.11g HT40: -61dBm, ± 1.5 @ 150Mbps
Channels	1-11 channels in base mode (US, Canada) 1-13 channels (ETSI, Japan) 1-13,14 channels (Japan)
Baseband	
Spread Spectrum	OFDM,DSSS
Modulations	DSSS with DBPSK, DQPSK, CCK (11b) OFDM with BPSK, QPSK, 16QAM, 64QAM (11g) OFDM with BPSK, QPSK, 16QAM, 64QAM (11n)
edia Access Protocol	CSMA/CA with ACK
Data Rate	
11b	1/2/5.5/11 Mbps
11g	6/9/12/18/24/36/48/54 Mbps
11n (20MHz)	MCS0-7 (up to 72Mbps)
11n (40MHz)	MCS0-7 (up to 150Mbps)
Software	
QoS	WMM, WMM-PS
Security	WEP (64/128 bit), WPA, WPA2, WPS, 802.1x, TKIP, AES Cisco CCX Support
Drivers	Windows XP 32/64, 2000,Vista 32/64 , Linux, Macintosh