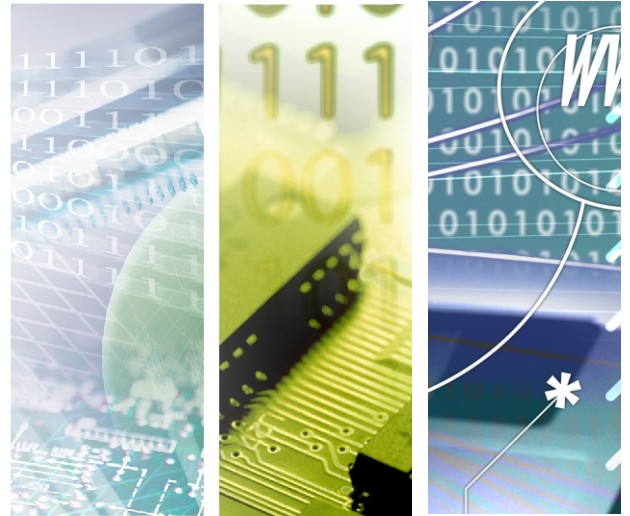# CUB805R
## IEEE 802.11b/g/n Wi-Fi-USB industrial module

**CUB805R**

*The cost effective industrial wireless LAN solution*

## Introduction of Products

Bointec CUB805R is a wifi USB 2.0 module, comply with FCC CE,is 150 wireless USB adapter which has lower power consumption, high linearity output power, accords with IEEE802.11B/G/N, and supports IEEE802.11i safety protocol, along with IEEE 802.11e standard service quality.

It connects with other wireless device which accorded with these standards together, supports the new data encryption on 64/128 bit WEP and safety mechanism on WPA-PSK/WPA2-PSK, WPA/WPA2.Its wireless transmitting rate rises 150M, equivalent to 10 times of common 11b product.

It's easy and convenient to link to wireless network for the users using desktop, laptop and other device that needs connect to wireless network.

Bointec CUB805R is good for apply on MID, networking camera, STB GPS, E-book, Hard disk player, Network Radios, PSP, etc, the device which need be supported by wireless networking.
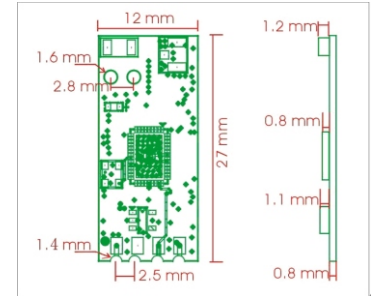
## Product Highlight

■CMOS MAC, Baseband PHY, and RF in a single chip for IEEE 802.11b/g/n compatible WLAN

■Complete 802.11n solution for 2.4GHz band

■72.2Mbps receive PHY rate and 72.2Mbps transmit PHY rate using 20MHz bandwidth

■150Mbps receive PHY rate and 150Mbps transmit PHY rate using 40MHz bandwidth

■Compatible with 802.11n specification

■Backward compatible with 802.11b/g devices while operating in 802.11n mode
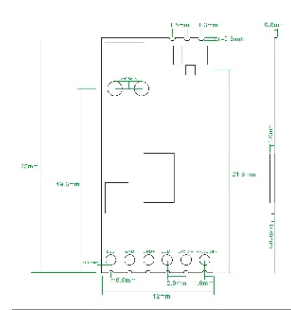
■CUB805R-3.3A for solder down(saw edge) form factor

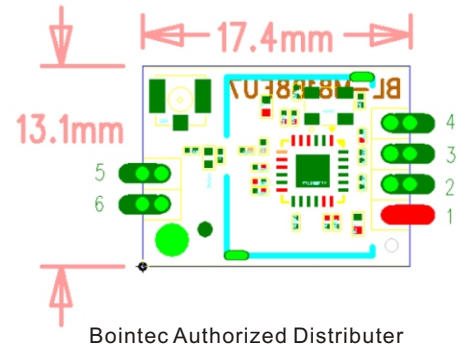| | Specification |
|---|---|
| Protocol and Atandard | IEEE 802.11n, IEEE 802.11g,EE 802.11b |
| Interface type | USB 1.0/1.1/ 2.0 |
| The range of frequency | 2.4-2.484GHz |
| The amount of working Channel | 1-11 （North America(US and Canada)）;1-13 （China, Europe）;1-14 （Japan） |
| Data Modulation | OFDM/DBPSK/DQPSK/CCK |
| Working Mode | Infrastructure, Ad-Hoc |
| The transmitting rate | 135/54/48/36/24/18/12/9/6 /1M （self-adapting） |
| Spread spectrum | DSSS |
| Sensitivity @PER | 54/135M-74dBm@10%/PER, |
| | 11M-85dBm@8%/PER |
| | 6M -88dBm@10%/PER, |
| | 1M -90dBm@8%/PER |
| RF Power | 135M:15dBM, |
| | 54M:15dBM, |
| | 11M:19dBM |
| Throughput | 90Mbps(external 2dbi antenna ,damping 40dbm in Shielding box） |
| The connect type of Antenna | Connect to the ANT pin of Module |
| LED indicator | status indicator |
| The transmit distance | Indoor 100M, Outdoor 300M, according the local environment |
| Working Power consumption | 480mW(TFGA-CUB805R0-11,-12) 350mW(TFGA-CUB805R3-21) |
| Dimension(L*W*H) | 12mm*25mm*0.8mm(TFGA-CUB805R0-11,-12) 17.4mm*13.1mm*0.8mm(TFGA-CUB805R3-21) |
| Main chipset | RTL8188CUS (TFGA-CUB805R0-11,-12) RTL8188FTV(TFGA-CUB805R3-21) |



*Product quick glance*



*ME Drawing/placement*



*CUB805R-3.3A Drawing*

Bointec Authorized Distributer

*Ordering Information*

| PART NUMBER | DESCRIPTION |
|---|---|
| TFGA-CUB805R0-11 | finished non packaing,OEM,CUB805R 5.5V |
| TFGA-CUB805R0-12 | finished non packaing,OEM,CUB805R 3.3V |
| TFGA-CUB805R3-21 | finished non packaing,OEM,CUB805R-33A ,3.3V |

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