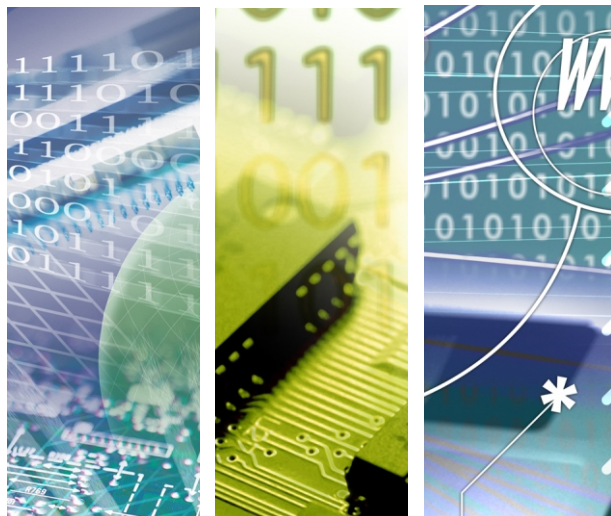




# CUB111R

Wifi 802.11abgn/AC USB Dongle (External Antenna)



CUB111R

IEEE802.11abgn/AC, 1T1R USB2.0 dongle with plastic enclosure

## Introduction of Products

Bointec CUB111R is a 802.11AC USB Wireless adapter using a Realtek 8811AU chipset providing a maximum transfer rate of 600Mbps. This product can be used for computer, PSP, media player or other device which needs the flexibility of a wireless connection.

With an external Antenna, it is easy for user to adjust a best angle for wireless radio signal reception/transmission.

Bointec CUB111R can be configured as an AP during installation, allowing you to share the internet connection to other Wi-Fi device. With the included AUTO-RUN CD, even novice user can install Bointec CUB111R easily and quickly.

## Product Highlight

- Main Chipset : Realtek 8811AU
- Wifi 802.11ac standard
  - \*802.11 a/b/g/n products
- 3dBi internal Antennas providing even better wireless performance
- Ultra-fast AC600 (433+150Mbps) wireless speed with 802.11ac (Maximum speed up to 5GHz 433Mbps or 2.4GHz 150Mbps)
- Dual Band connections for lag-free HD video streaming and gaming
- Supports O.S.:
  - \*Windows 10/8/7/XP 32/64bit
  - \*Apple MAC OS,
  - \*Linux
- External Antenna edition for radio



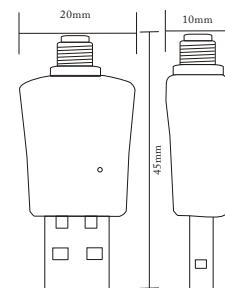
# Specification

WiFi	
Standard	IEEE802.11ac, IEEE802.11a, IEEE802.11b, IEEE 802.11g, IEEE 802.11n
Bus Interface	USB 2.0
Main Chip	Realtek RTL8811AU/CU
Data Rate	802.11a: 54, 48, 36, 24, 18, 12, 9, 6 Mbps 802.11b: 11, 5.5, 2, 1 Mbps 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps 802.11n: MCS 0 to 15 for HT20MHz, MCS 0 to 15 for HT40MHz, 802.11ac: MCS 0 to 8 for HT20MHz MCS 0 to 9 for HT40MHz MCS 0 to 9 for HT80MHz
Media Access Control	CSMA/CA with ACK
Modulation Techniques	802.11ac: 256QAM, 64QAM, 16QAM, QPSK, BPSK 802.11a: 64QAM, 16QAM, QPSK, BPSK 802.11b: CCK, DQPSK, DBPSK 802.11g: 64QAM, 16QAM, QPSK, BPSK 802.11n: BPSK, QPSK, 16QAM, 64QAM
RF Output Power	2.4GHz: 802.11b : 18 dBm±1.5dB 2.4GHz: 802.11n : 14 dBm±1.5dB 5GHz: 802.11a : 12 dBm±1.5dB 5GHz: 802.11ac : 12 dBm±1.5dB (for detail, check specification document)
RF Sensitivity	11a,20MHz:- MCS=0 PER @ -90 dBm, typical 11n,20MHz:- MCS=0 PER @ -90 dBm, typical 11b,20MHz@8%PER:- 11Mbps PER @ -91 dBm, typical (for detail, check specification document)
Network Architecture	Ad-hoc mode (Peer-to-Peer) Infrastructure mode
Security	WEP 64&128bit, WPA, WPA-PSK, WPA2, WPA2-PSK, WPS, IEEE 802.1X, IEEE 802.11i
Driver support	
OS Supported	Windows XP (32/64) ; Vista (32/64) ; Windows 7 (32/64) ; Windows 8 (32/64) ; Windows 8.1 (32/64) ; Windows 10 (32/64) ; Linux2.6 or above version ; Mac10.11 or lower version.
Electronics characteristics	
Operating Voltage	5V/1A ±5% I/O supply voltage
Dimansion	55.00mm x 15.00mm x 4.00mm(PCB-A)
Antenna Type	wire-out or U.FL connectors x 2
Operating Temperature	-0° ~ +50°C
Storage Temperature	-20° ~ +70°C
Operating Humidity	5%~95%, non-condensing
Storage Humidity	5%~95%, non-condensing
Certifications	
CE (Eurpoe)	Yes
RoHS	Yes

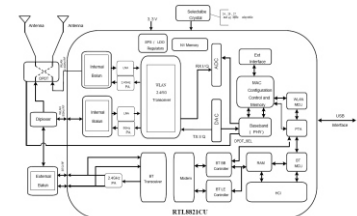
## Product quick glance



## ME Drawing/placement



## Block Diagram



## Ordering Information

PART NUMBER	DESCRIPTION
TFGA-CUB111R1-31	finished non packing, OEM,CUB111R
TWRN-9161201-102	2.4GHz+5.8GHz wifi antenna, dual bands SMA MF, simple
TWRN-2461201-001	2.4GHz wifi antenna, SMA MF, simple

Bointec Authorized Distributer



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