



DUB811R

USB 802.11N Wireless LAN with Bluetooth USB Adapter

Product Introduction

Bointec DUB811R USB adapter is a highly integrate solution to 802.11n with Bluetooth 2.1 / 3.0 / 4.0 and with ultra-tiny size. It provides good coordination to good coexistence performance between 802.11 and Bluetooth.

Key Features

WiFi Features

- Comply with IEEE 802.11b/g/n standards.
- High transfer data rate – up to 150Mbps.
- Supports 64/128-bit WEP, WPA, WPA2 and IEEE802.1x functions for high level of security.
- Support the most popular operating system: Windows 7 / 8, Linux
- Supports USB 2.0/1.1 interface.
- Supports software WPS (WiFi Protected Setup) connection.
- Supports WMM wireless QoS feature.

Bluetooth Features

- Bluetooth Class 1 radio
- Supports Bluetooth v4.0 Low Energy (BLE)
- Bluetooth v4.0 Dual Mode support : Simultaneous LE and BR/EDR
- Compatible with Bluetooth v2.1 and v3.0
- Bluetooth v3.0 +HS compliant
- Supports AFH to dynamically detect channel quality to improve transmission quality
- Supports 4 Pico nets in a scatter net
- Supports Secure Simple Pairing
- Supports Low Power Mode (Sniff / Sniff Sub rating / Hold / Park).
- Enhanced BT/WiFi Coexistence control to improve transmission quality in difference profiles

Product Specification

Product	11n Wireless LAN with Bluetooth USB Adapter
Chipset Solution	Realtek RTL8723BU
Standard	IEEE 802.11b/g/n
Bus Type	USB 2.0 Type A
Frequency Band	2.4000~2.4835GHz (Industrial Scientific Medical Band)
Data Rate	11b: 1/2/5.5/11Mbps 11g: 6/9/12/24/36/48/54Mbps 11n (20MHz): MCS0-7, up to 72Mbps 11n (40MHz): MCS0-7, up to 150Mbps
Output Power	11b: 16±1.5dBm , 11g: 14±1.5dBm, 11n: 12±1.5dBm
Receive Sensitivity	11b@11Mbps: -79±2dBm 11g@54Mbps: -65±2dBm 11n(20MHz)@MCS7: -64±2dBm 11n(40MHz)@MCS7: -61±2dBm
Bluetooth	Class 1 radio, supports BT v4.0/ 3.0/ 2.1
Security	WEP 64/128, WPA, WPA2 and IEEE 802.1x
Antenna	Internal Antenna x 1 (1T1R)
Drivers	Windows 7 / 8 / 10, Linux
LED	Blue : Link/Activity (Bluetooth) x1 Green : Link/Activity (Wireless LAN) x1
Dimension	7.1(H) x 14.9(W) x 18.5(D) mm
Temperature	Operating: 32~104°F (0~40°C) , Storage: -4~140°F (-20~60°C)
Humidity	Operating: 10~90% (NonCondensing), Storage: Max. 95% (NonCondensing)
Certification	CE