

600Mbps Wireless USB Adapter 802.11ac/a/b/g/n+BT

Model: WD-4512BT



KEY FEATURES

- 600Mbps wireless transmission rate
- Dual band frequency 2.4GHz 150Mbps
5.8GHz 433Mbps
- Provides two methods of operation: Infrastructure and Ad-Hoc
- Quick Secure Setup, complies with WPS for worry free wireless security
- Supports 64/128-bit WEP, complies with 128 bit WPA standard (TKIP/AES), supports MIC, IV Expansion, Shared Key Authentication, IEEE 802.1X
- Supports Windows XP/Vista/win7/win8/win8.1/Win10
- Seamlessly compatible with 802.11b/g/n devices
- With Bluetooth 4.2

Specifications

Chipset	Realtek RTL8821CU	
Interface	USB2.0 Hi-Speed connector	Bluetooth 4.2
Wireless Speed	11n: Up to 150Mbps AC: Up to 433Mbps	
Frequency Range	2.4GHz & 5.8GHz	
Wireless Transmit Power	20dBm(MAX EIRP)	
Modulation Technique	OFDM/CCK/16-QAM/64-QAM	
Work Mod	Ad-Hoc / Infrastructure	
Wireless Security	64/128 bits WEP, WPA/WPA2, WPA-PSK/WPA2-PSK (TKIP/AES)	
Temperature Range	Operating: -20°C to 70°C, Storage: -40°C to 90°C	
Humidity	Operating: 5% to 95% (non-condensing), Storage: Max. 90% (non-condensing)	
Support Operating System	Windows	
Dimensions (H x W x D)	19.5x 15x 7 mm	

RF Performance Table for 2.4GHz and 5.8GHz

	Data Rate	TX Power	Tolerance
2.4GHz	1Mbps	16dBm	±2dB
802.11b	11Mbps	16dBm	±2dB
2.4GHz	6Mbps	14dBm	±2dB
802.11g	54Mbps	13dBm	±2dB
2.4GHz	MCS0	13dBm	±2dB
802.11n	MCS7	13dBm	±2dB
20MHz	MCS8	13dBm	±2dB
2.4GHz	MCS0	13dBm	±2dB
802.11n	MCS9	13dBm	±2dB
40MHz			

	Data Rate	RX Specifications Sensitivity	Tolerance
2.4GHz	1Mbps	-97dBm	±2dB
802.11b	11Mbps	-90dBm	±2dB
2.4GHz	6Mbps	-92dBm	±2dB
802.11g	54Mbps	-76dBm	±2dB
2.4GHz	MCS0	-92dBm	±2dB
802.11n	MCS7	-75dBm	±2dB
20MHz	MCS8	-71dBm	±2dB
2.4GHz	MCS0	-89dBm	±2dB
802.11n	MCS9	-67dBm	±2dB
40MHz			
5.8GHz	6Mbps	-94dBm	±2dB
11a	54Mbps	-78dBm	±2dB
5.8GHz	MSC0	-89dBm	±2dB
11ac	MCS	-64dBm	±2dB
80MHz			

Dimensional Drawing



Warning!

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the device and receiver.
- Connect the device into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

FCC Radiation Exposure Statement

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located for operating in conjunction with any other antenna or transmitter.