

## 600Mbps Wireless USB Adapter

### 802.11ac/a/b/g/n+BT

Model: J5



#### 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
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## 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<br>802.11b          | 1Mbps     | 16dBm    | ±2dB      |
|                            | 11Mbps    | 16dBm    | ±2dB      |
| 2.4GHz<br>802.11g          | 6Mbps     | 14dBm    | ±2dB      |
|                            | 54Mbps    | 13dBm    | ±2dB      |
| 2.4GHz<br>802.11n<br>20MHz | MCS0      | 13dBm    | ±2dB      |
|                            | MCS7      | 13dBm    | ±2dB      |
|                            | MCS8      | 13dBm    | ±2dB      |
| 2.4GHz<br>802.11n<br>40MHz | MCS0      | 13dBm    | ±2dB      |
|                            | MCS9      | 13dBm    | ±2dB      |

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

## 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.