

**Product:** RTL8188C/8192C/8192D USB Software Package - Linux Driver  
**Version:** v3.3.1\_3083.20111213

### Release History:

v2.0.939.20100726	<ol style="list-style-type: none"> <li>1. Use the bg mode when AP is in WEP and TKIP mode. (Recommended by latest WiFi 11n test plan).</li> <li>2. First release.</li> </ol>
v2.0.967.20100730	<ol style="list-style-type: none"> <li>1. Add functionality of Antenna diversity.</li> </ol>
v2.0.974.20100803	<ol style="list-style-type: none"> <li>1. Fixed the Big Endian issue.</li> </ol>
v2.0.1042.20100902	<ol style="list-style-type: none"> <li>1. Resolved static link issue with RTL8712U.</li> <li>2. Fixed the Ad-hoc connection bug when the Ad-hoc ssid is the same with someone AP's SSID.</li> <li>3. Update related PHY parameters to improve throughput.</li> <li>4. Improve Antenna diversity algorithm.</li> </ol>
v2.0.1126.20101020	<ol style="list-style-type: none"> <li>1. Added USB's selective suspend feature.</li> <li>2. Added the Realtek GPL into each C and header files.</li> <li>3. Added related ioctl command for Android platform.</li> <li>4. Fixed NIC status display issue.</li> <li>5. Fixed power training issue at station mode.</li> </ol>
v2.0.1170.20101112	<ol style="list-style-type: none"> <li>1. Modify the CONFIG section of Android-x86</li> <li>2. Fixed radius issue.</li> <li>3. Update FW to V60.</li> <li>4. Support the Power saving function.</li> <li>5. Update usb_id_table to v38.</li> <li>6. Fixed the kernel panic when receive WDS packet.</li> </ol>
v2.0.1180.20101116	<ol style="list-style-type: none"> <li>1. Fixed compiler error.</li> </ol>
v2.0.1212.20101205	<ol style="list-style-type: none"> <li>1. Fix the Android private wifi ioctl SCAN-ACTIVE, SCAN-PASSIVE</li> <li>2. Alter the retry limit of "Active disconnect" to 8</li> <li>3. Fix the overkilling problem of active disconnect caused by frequently site surveying</li> <li>4. Fix the connect/disconnect looping problem on Android.</li> <li>5. Removed the "scan interval" protection of site survey function temporarily</li> <li>6. Adjust locking mechanism of TX, and fix race-condition issue.</li> </ol>
v2.0.1212.20101208	<ol style="list-style-type: none"> <li>1. Add Kconfig.</li> </ol>
v2.0.1324.20110126	<ol style="list-style-type: none"> <li>1. Synchronization strategy improved.</li> <li>2. Fixed the AP Tx fragment issue when using the WPA2-RADIUS.</li> <li>3. Added the IP header 8 bytes alignment.</li> <li>4. Added new feature - Easy Replacement.</li> <li>5. Added 20/40 MHz Coexistence test item (5.2.48 for wifi test )</li> <li>6. Fixed related connection failure issue in Ad-hoc mode.</li> <li>7. Updated usb_id_table to DID_USB_v47_20110118.</li> </ol>
v2.0.1346.20110214	<ol style="list-style-type: none"> <li>1. Fixed Ad-hoc connection issues.</li> </ol>

v2.0.1406.20110309	<ol style="list-style-type: none"> <li>1. Updated usb_id_table to DID_USB_V50_20110209.</li> <li>2. Fixed compile error in kernel 2.6.37</li> <li>3. Fixed Ad-hoc issue with DLink-DWA130.</li> </ol>
v3.0.1590.20110511	<ol style="list-style-type: none"> <li>1. The version of usb_id_table is DID_USB_V60_20110425.</li> </ol>
v3.0.1684.20110525	<ol style="list-style-type: none"> <li>1. Add wps probe req ie &amp; wps assoc resp ie for wps2.0</li> <li>2. Patch issue_qos_nulldata()/issue_nulldata() to set tods/fromds bit field depend on sta mode, ap mpde, adhoc mode</li> </ol>
v3.0.1759.20110601	<ol style="list-style-type: none"> <li>1. Supported the WiFi Direct functionality.</li> <li>2. Supported the WPSv2.0 functionality.</li> <li>3. Updated the hostapd and wpa_supplicant for WiFi Direct and WPS v2.0.</li> </ol>
v3.0.2028.20110629	<ol style="list-style-type: none"> <li>1. Refine WiFi Direct.</li> <li>2. Support Android wifi cmd "COUNTRY" .</li> <li>3. Add HW antenna diversity function.</li> <li>4. Modified set wep key for auth SHARED mode.</li> <li>5. Modified key index for Broadcom IOT issue.</li> <li>6. Fixed Big Endian issue in amsdu_to_msdu().</li> <li>7. Support more USB dongle (DID_USB_V71_20110628).</li> </ol>
v3.0.2052.20110701	<ol style="list-style-type: none"> <li>1. Fixed the problem of cannot power down.</li> <li>2. Support Android early suspend</li> </ol>
v3.0.2164.20110715	<ol style="list-style-type: none"> <li>1. Reset MCU while polling FW ready fail</li> <li>2. Refine of RX signal statistics</li> <li>3. Support combo scan.</li> </ol>
v3.0.2230.20110728	<ol style="list-style-type: none"> <li>1. WiFi Direct function improve.</li> <li>2. Refine power saving functions.</li> </ol>
v3.1.2291.20110804	<ol style="list-style-type: none"> <li>1. Fixed WPS ie parsing issue.</li> <li>2. Add an ioctl rtw_p2p_get_device_name() that can get peer devices' names.</li> <li>3. Refine ioctls' set/get forms that related to p2p.</li> </ol>
v3.1.2497.20110906	<ol style="list-style-type: none"> <li>1. For SoftAP mode, fixed WPS connecting issue with RALINK3070.</li> <li>2. Fixed the Big Endian Autoload check fail issue.</li> <li>3. Fixed the IOT issue with Cisco 802.1x ap.</li> </ol>
v3.1.2590.20110922	<ol style="list-style-type: none"> <li>1. Fixed incorrect LED behavior.</li> <li>2. Fixed a potential resource leaks.</li> <li>3. Fixed possible race condition when using incorrect lock.</li> </ol>
v3.1.2590.20111020	<ol style="list-style-type: none"> <li>1. Sync. WiFi_Direct_User_Interface to driver</li> </ol>
v3.3.0_2971.20111128	<ol style="list-style-type: none"> <li>1. Support both CU-series and DU-series</li> <li>2. Supported Linux kernel v3.0.2</li> <li>3. Improved quality of Video over IP multicast</li> <li>4. Increase a functionality to support L2 Bridge</li> <li>5. Speed up hardware initialization process for CU-series</li> <li>6. Update android_reference_code</li> <li>7. Fixed some Endianness issues</li> <li>8. Fixed the IOT issue for Wi-Fi Direct connection, software AP and station mode</li> <li>9. Fix the roaming problem</li> </ol>

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v3.3.1_3083.20111213	1. Fix WEP SHARED connection problem.
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**Description:**

Realtek provides the solution for WLAN in hardware and software. The software package could be adopted for Realtek RTL8188C/8192C/8192D USB WLAN series hardware on Linux based platforms.

**Software Version:**

RTL8188C/8192C/8192D USB Linux Driver Version: v3.3.1\_3083.20111213

**Firmware Version:**

Firmware is embedded in the RTL8188C/8192C/8192D USB driver.

The firmware version of RTL8192C is V79

The firmware version of RTL8192D is V25

**Hardware Supported:****CU-series:**

- RTL8188CUS
- RTL8188RU
- RTL8188CUS-Slim Solo
- RTL8188CUS-Slim Combo
- RTL8188CE-VAU
- RTL8188CUS-VL
- RTL8188CTV
- RTL8192CUS
- RTL8192CE-VAU

**DU-series:**

- RTL8192DU-VS
- RTL8192DU-VC

**Platform Supported:**

- Linux (kernel 2.6.18 ~ 2.6.38 and kernel 3.0.2)
- Android 1.6 ~ 2.3

**CPU supported:**

- x86
- ARM
- MIPS