

**Product:** RTL8188C/8192C USB Software Package - Linux Driver  
**Version:** v3.4.4\_4749.20120730

### 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> </ol>

	<ol style="list-style-type: none"> <li>Fixed compile error in kernel 2.6.37</li> <li>Fixed Ad-hoc issue with DLink-DWA130.</li> </ol>
v3.0.1590.20110511	1. The version of usb_id_table is DID_USB_V60_20110425.
v3.0.1684.20110525	<ol style="list-style-type: none"> <li>Add wps probe req ie &amp; wps assoc resp ie for wps2.0</li> <li>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>Supported the WiFi Direct functionality.</li> <li>Supported the WPSv2.0 functionality.</li> <li>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>Refine WiFi Direct.</li> <li>Support Android wifi cmd "COUNTRY" .</li> <li>Add HW antenna diversity function.</li> <li>Modified set wep key for auth SHARED mode.</li> <li>Modified key index for Broadcom IOT issue.</li> <li>Fixed Big Endian issue in amsdu_to_msdu().</li> <li>Support more USB dongle (DID_USB_V71_20110628).</li> <li>Refine Mac0(2.4G) &amp; Mac1(5G) for 92D.</li> </ol>
v3.0.2052.20110701	<ol style="list-style-type: none"> <li>Fixed the problem of cannot power down.</li> <li>Support Android early suspend</li> </ol>
v3.0.2164.20110715	<ol style="list-style-type: none"> <li>Reset MCU while polling FW ready fail</li> <li>Refine of RX signal statistics</li> <li>Support combo scan.</li> </ol>
v3.0.2230.20110728	<ol style="list-style-type: none"> <li>WiFi Direct function improve.</li> <li>Refine power saving functions.</li> </ol>
v3.1.2291.20110804	<ol style="list-style-type: none"> <li>Fixed WPS ie parsing issue.</li> <li>Add an ioctl rtw_p2p_get_device_name() that can get peer devices' names.</li> <li>Refine ioctls' set/get forms that related to p2p.</li> </ol>
v3.1.2497.20110906	<ol style="list-style-type: none"> <li>For SoftAP mode, fixed WPS connecting issue with RALINK3070.</li> <li>Fixed the Big Endian Autoload check fail issue.</li> <li>Fixed the IOT issue with Cisco 802.1x ap.</li> </ol>
v3.1.2590.20110922	<ol style="list-style-type: none"> <li>Fixed incorrect LED behavior.</li> <li>Fixed a potential resource leaks.</li> <li>Fixed possible race condition when using incorrect lock.</li> </ol>
v3.1.2590.20111020	1. Sync. WiFi_Direct_User_Interface to driver
v3.3.0_2971.20111128	<ol style="list-style-type: none"> <li>Support both CU-series and DU-series</li> <li>Supported Linux kernel v3.0.2</li> <li>Improved quality of Video over IP multicast</li> <li>Increase a functionality to support L2 Bridge</li> <li>Speed up hardware initialization process for CU-series</li> <li>Update android_reference_code</li> <li>Fixed some Endianness issues</li> <li>Fixed the IOT issue for Wi-Fi Direct connection, software AP and station mode</li> <li>Fix the roaming problem</li> </ol>
v3.3.1_3083.20111213	1. Fix WEP SHARED connection problem.
v3.3.2_3192.20120103	<ol style="list-style-type: none"> <li>Add android_reference_code_ICS to support Android 4.x</li> <li>Support scan with multiple SSID</li> </ol>

	<ol style="list-style-type: none"> <li>3. Fix problem of PMK caching</li> <li>4. Fix problem of TKIP countermeasure</li> <li>5. Fix RX reordering mechanism</li> </ol>
v3.4.0_3317.20120120	<ol style="list-style-type: none"> <li>1. Support NL80211 interface</li> <li>2. Support Android WiFi-Direct Framework</li> </ol>
v3.4.1_3418.20120217	<ol style="list-style-type: none"> <li>1. Fix the problem of TX rate report using NL80211</li> <li>2. Update android_reference_codes_ICS</li> <li>3. Fix some bugs of WiFi-Direct using NL80211</li> <li>4. Fix the Wifi-Direct IOT issue with Samsung GS2</li> </ol>
v3.4.2_3727.20120404	<ol style="list-style-type: none"> <li>1. Bug fix for WiFi-Direct</li> <li>2. Fix deadlock problem caused by rtw_wx_set_wap()</li> <li>3. Fix WEP shared connection problem for Android</li> <li>4. Fix racing problem of AP mode's asoc_list</li> <li>5. Fix problem to scan AP with hidden SSID for Android</li> <li>6. Disable IOL for USB2.0 by default</li> <li>7. Disable CONFIG_IOCTL_CFG80211 by default</li> </ol>
v3.4.3_4369.20120622	<ol style="list-style-type: none"> <li>1. Fix Wifi Logo ACM test item</li> <li>2. Drop RX BC/MC packet before group key is installed</li> <li>3. Support hostapd's ignore_broadcast_ssid setting (need patch of hostapd)</li> <li>4. Fix the problem indicate IFF_UP event when netdev_close() is called</li> </ol>
v3.4.4_4749.20120730	<ol style="list-style-type: none"> <li>1. Fix endian and channel plan error.</li> <li>2. Fix racing problem of resume_process() and netdev_open().</li> <li>3. Set wps ie for probe req for WPS 2.0</li> <li>4. Fix CFG80211 scan issue.</li> <li>5. Modify mem_flags for memory allocation.</li> <li>6. Modify TX &amp; RX for CONFIG_MINIMAL_MEMORY_USAGE flag.</li> <li>7. Add IGI Adjustment by false alarm before linked.</li> </ol>

**Description:**

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

**Software Version:**

RTL8188C/8192C USB Linux Driver Version: v3.4.3\_4369.20120622

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

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

**Platform Supported:**

- n Linux (kernel 2.6.18 ~ 2.6.38 and kernel 3.0.8)
- n Android 1.6 ~ 2.3, 4.0

**CPU supported:**

- n x86
- n ARM
- n MIPS