

**Product:** RTL8188F USB Software Package - Linux Driver  
**Version:** v5.7.4.1\_35666.20191106

### Release History:

v4.3.23_15951.20151126	1. First formal release version
v4.3.23.1_16377.20151216	<ol style="list-style-type: none"> <li>1. Wi-Fi Logo : 11N, WPS, P2P, PMF, TDLS verified. (Mandatory items)</li> <li>2. Update firmware to v0113</li> <li>3. Fix some compiler warning for TDLS</li> <li>4. Fix memory double free</li> <li>5. Fix nl80211 scan by frequency issue</li> <li>6. Refine Antenna Diversity</li> <li>7. Refine MP flows</li> </ol>
v4.3.23.2_18229.20160718	<ol style="list-style-type: none"> <li>1. AP mode without HT/VHT will not reject sta associate with HT/VHT</li> <li>2. Refine Power Trim flow</li> <li>3. Fix wpa_supplicant disconnect ignore issue</li> <li>4. Fix concurrent mode AP+P2P GC(AP+sta WPS) issue which P2P GC(sta WPS) will connection timeout.</li> <li>5. Fix the TDLS IOT issue with Chromecast dongle</li> <li>6. Fix crash issue during suspend/resume</li> <li>7. Fix disconnect issue under WOWLAN resume</li> <li>8. Disable CONFIG_USB_RX_AGGREGATION by default</li> <li>9. Enable ODM_BB_CCK_PD by default</li> <li>10. Fix and refine MP issue for 8188F</li> <li>11. Fix RSSI display abnormal bug</li> <li>12. Fix bug of RX encrypted AMSDU.</li> <li>13. Fix unexpected wake up in wow mode on some platform</li> <li>14. Fix that ht40 some channel rx sensitivity is worse than other channels</li> <li>15. Improve throughput stability</li> <li>16. Fix 8188ftv card lost</li> </ol>
v4.3.23.3_18890.20160804	<ol style="list-style-type: none"> <li>1. Fix IQK for CCK packet Tx IQK fail issue</li> <li>2. Fix wowlan GTK rekey issue</li> <li>3. Add efuse_set update command</li> <li>4. mp_start/mp_stop/mp_bandwidth/mp_reset_stats add return message</li> <li>5. Fix mp bugs</li> <li>6. Improve rx throughput</li> </ol>
v4.3.23.4_19019.20160811	<ol style="list-style-type: none"> <li>1. Force enable TX power by rate by default</li> <li>2. REALTEK_CONFIG_PATH doesn't append IC name folder by default</li> <li>3. Fix bug of DIG disabled after SCAN backup</li> <li>4. Refine, speed up card enable flow</li> </ol>

v4.3.23.5_20735.20161226	<ol style="list-style-type: none"> <li>1. Update phy parameter to V31</li> <li>2. Update FW from V113 to V400</li> <li>3. Add Customer String function</li> <li>4. Fix WOW bug when AP using pairwise_key(AES)/group_key(AES)</li> </ol>
v4.3.23.6_20964.20170110	<ol style="list-style-type: none"> <li>1. Fix read bugs of Customer String function</li> </ol>
v5.2.11_21317.20170518	<ol style="list-style-type: none"> <li>1. Update phy parameter to V32</li> <li>2. Improve WOW mode power consumption(LCLK)</li> <li>3. Fix bug for warm reboot without cutting off wifi's power supply</li> <li>4. Avoid unnecessary pulse in mp testing in mp mode</li> <li>5. Refine redundant print of rate adaptive</li> <li>6. New compile flag for TX power configuration</li> <li>7. Support adaptivity for CE-RED. 2G: ETSI v2.1.1</li> <li>8. Support WPA2 TKIP GTK offload</li> </ol>
v5.2.11.1_22663.20170607	<ol style="list-style-type: none"> <li>1. Update phy parameter</li> <li>2. Fix bug when softap with client entering power save mode may not able to broadcast/multicast</li> <li>3. Refine power save wake up function</li> </ol>
v5.2.11.1_22924.20170703	<ol style="list-style-type: none"> <li>1. Fix bug. Cannot reconnect to AP after normal suspend/resume at certain kernel version.</li> </ol>
v5.2.11.2_24797.20171030	<ol style="list-style-type: none"> <li>1. Fixed WPA2 vulnerability - key reinstallation attacks(KRACKs).</li> </ol>
v5.2.11.3_26216.20180116	<ol style="list-style-type: none"> <li>1. Fix bug. Fixed WPA2 vulnerability on big endian platform</li> <li>2. Fix bug. Fixed WPA2 vulnerability on WOW</li> <li>3. Fix bug. Fix RX buffer bug on some platform</li> </ol>
v5.3.0_27214.20180504	<ol style="list-style-type: none"> <li>1. Support 802.11s Mesh</li> <li>2. Refine softap mode tx rate control</li> </ol>
v5.3.0.1_28034.20180525	<ol style="list-style-type: none"> <li>1. Support mesh multicast to unicast</li> <li>2. Fix potential deadlock when cat mesh_networks proc entry</li> <li>3. Support setup secure Mesh network on kernel 3.10</li> <li>4. Improve awareness to mesh gate</li> <li>5. Support android O8</li> <li>6. Support set country code through NL80211_CMD_REQ_SET_REG</li> <li>7. Modify MSTAR, HISILICON platform setting</li> </ol>
v5.7.4_33085.20190419	<ol style="list-style-type: none"> <li>1. Support android P 9.0</li> <li>2. Fix MP mode TX bugs on CCK rate.</li> <li>3. Improve connection/disconnection stability.</li> </ol>
v5.7.4.1_35666.20191106	<ol style="list-style-type: none"> <li>1. Hotfix P2P NoA buffer potentially overflow</li> <li>2. Support kernel to 5.0</li> <li>3. Support WPA3-SAE(Personal)</li> </ol>

**Description:**

- This software package could be adopted for Realtek RTL8188F USB WLAN series hardware on Linux based platforms.

**Software Package Feature:**

- IEEE 802.11b/g/n Wi-Fi compliant
- 802.1x, WEP, WPA TKIP and WPA2 AES/Mixed mode for PSK and TLS (Radius)
- WPA3-SAE Personal
- WPS - PIN and PBC Methods
- IEEE 802.11 b/g/n Client mode
  - Support wireless security for WEP, WPA TKIP and WPA2 AES PSK
  - Support WPA/WPA2 TLS client
  - Support power saving mode
- Soft AP mode
- Wi-Fi Direct
- Miracast
- Wake on WLAN
- TDLS
- MESH
  - Support Mesh only
  - Support STA + Mesh

**Hardware Supported:**

- RTL8188FTV

**Platform Supported:**

- Linux (kernel 2.6.24 ~ 5.0)
- Android 1.6 ~ 2.3, 4.0 ~ 9.0