

Product: RTL8188F USB Software Package - Linux Driver
Version: v5.15.3-6-g1a2e952f9.20230217

Release History:

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

v4.3.23.5_20735.20161226	<ol style="list-style-type: none"> 1. Update phy parameter to V31 2. Update FW from V113 to V400 3. Add Customer String function 4. Fix WOW bug when AP using pairwise_key(AES)/group_key(AES)
v4.3.23.6_20964.20170110	<ol style="list-style-type: none"> 1. Fix read bugs of Customer String function
v5.2.11_21317.20170518	<ol style="list-style-type: none"> 1. Update phy parameter to V32 2. Improve WOW mode power consumption(LCLK) 3. Fix bug for warm reboot without cutting off wifi's power supply 4. Avoid unnecessary pulse in mp testing in mp mode 5. Refine redundant print of rate adaptive 6. New compile flag for TX power configuration 7. Support adaptivity for CE-RED. 2G: ETSI v2.1.1 8. Support WPA2 TKIP GTK offload
v5.2.11.1_22663.20170607	<ol style="list-style-type: none"> 1. Update phy parameter 2. Fix bug when softap with client entering power save mode may not able to broadcast/multicast 3. Refine power save wake up function
v5.2.11.1_22924.20170703	<ol style="list-style-type: none"> 1. Fix bug. Cannot reconnect to AP after normal suspend/resume at certain kernel version.
v5.2.11.2_24797.20171030	<ol style="list-style-type: none"> 1. Fixed WPA2 vulnerability - key reinstallation attacks(KRACKs).
v5.2.11.3_26216.20180116	<ol style="list-style-type: none"> 1. Fix bug. Fixed WPA2 vulnerability on big endian platform 2. Fix bug. Fixed WPA2 vulnerability on WOW 3. Fix bug. Fix RX buffer bug on some platform
v5.3.0_27214.20180504	<ol style="list-style-type: none"> 1. Support 802.11s Mesh 2. Refine softap mode tx rate control
v5.3.0.1_28034.20180525	<ol style="list-style-type: none"> 1. Support mesh multicast to unicast 2. Fix potential deadlock when cat mesh_networks proc entry 3. Support setup secure Mesh network on kernel 3.10 4. Improve awareness to mesh gate 5. Support android O8 6. Support set country code through NL80211_CMD_REQ_SET_REG 7. Modify MSTAR, HISILICON platform setting
v5.7.4_33085.20190419	<ol style="list-style-type: none"> 1. Support android P 9.0 2. Fix MP mode TX bugs on CCK rate. 3. Improve connection/disconnection stability.
v5.7.4.1_35666.20191106	<ol style="list-style-type: none"> 1. Hotfix P2P NoA buffer potentially overflow 2. Support kernel to 5.0 3. Support WPA3-SAE(Personal)
v5.7.4.2_36687.20200421	<ol style="list-style-type: none"> 1. Support android 10 2. Support kernel to 5.4 3. Fix kr00k issue 4. Fix the P2P bug when receiving GAS frames
v5.11.5-1-g12f7cde4b.20201102	<ol style="list-style-type: none"> 1. Support WPA3-Enterprise 2. Support Agile Multiband (MBO) for STA mode 3. Support Hostapd ACS

v5.11.5-13-g2482755ff.20210615	1. Fix AMSDU & Fragment Design flaw
v5.11.5.2-0-g75b22b63d.20211129	1. Fix memory copy issues 2. Fix AMSDU and fragment Design flaw (phase 2)
v5.11.5.3-0-g7482f969e.20220307	1. Support kernel to 5.10 2. Fix bug. Fix RX cannot receive 535 or 536 bytes packet when using specific WiFi6 AP
v5.11.5.4-0-g65b8f0aad.20220413	1. Support kernel to 5.11 2. Support Android 11 3. Support WPA3 R3
v5.11.5.5-0-gaad978606.20230109	1. Support kernel to 5.15 2. Support WAPI 3. Correct SIFS setting (update submodule)
v5.15.3-6-g1a2e952f9.20230217	1. Support Android 12 2. Support WPA3 R3 3. Support EasyConnect (DPP) for STA mode 4. Support Agile Multiband (MBO) for AP mode 5. Support CSA for STA and AP mode 6. Support official supplicant for P2P mode 7. world wide mode 8. Support 802.11d (country IE slave) for regd_src == RTK_PRIV

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

Hardware Supported:

- RTL8188FTV

Platform Supported:

- Linux (kernel 2.6.24 ~ 5.15)
- Android 1.6 ~ 2.3, 4.0 ~ 12.0