REALTEK

Product: RTL8852B USB Wi-Fi Software Package - Linux Driver
Version: v1.19.21-86-g85f01e54fa.20250826

Release History:

v1.19.21-86-g85f01e54fa.20250826 − chplan_ver: 68-47	1. Optimize RFK function when connecting 2. Resolve "Warning msg when compiling kernel 6.14" issue 3. Resolve "FW version and BTC version mismatch" issue
v1.19.21-80-ge81cb18b9.20250722 − chplan_ver: 68-47	1. Support up to kernel 6.14 2. Support mDNS offload for WOWLAN mode 3. Support Self Diagnostic Function 4. Resolve "FSM" issue 5. Resolve "External auth Tx fail" issue 6. Resolve "MBO memory overwrite" issue 7. Resolve "kernel 6.14 compile error" issue
v1.19.21-68-gd16563cf8.20250603 − chplan_ver: 68-47	1. Support mDNS offload for WOWLAN mode 2. Support Self Diagnostic Function 3. Resolve "FSM" issue 4. Resolve "External auth Tx fail" issue 5. Resolve "MBO memory overwrite" issue
v1.19.14-127-gd73bd7b91.20240418 − chplan_ver: 64-40	1. Enable IO offload by default 2. Enable Scan offload by default 3. Disable Power Saving for normal mode by default 4. Support SRRC Certification 5. Support Android 14
v1.19.3-45-g7583a804a.20230505 − chplan_ver: 63-36	1. The first version of v1.19 formal release package 2. Support and Enable IO offload function 3. Support Android 13 4. Power Saving does not support yet for normal mode 5. Modify PHL log level from INFO(4) to WARNING(3)
v1.15.11-36-g66c244572.20220902 − chplan_ver: 59-32	1. Enable XMIT ACK 2. Set scan backop operation by Default 3. Refine on reducing dynamic memory allocation 4. Update parameter to CBV/CCV
v1.15.11-15-gc327097e0.20220624 − chplan_ver: 59-32	1. Enable Power Saving 2. Support TX OFDMA 3. Support TKIP rekey offload in WOWLAN mode 4. Refine to extend Scan Timeout 5. Shared buffer is set to 192K

v1.15.7-112-g1d36f2f7.20211227 − chplan_ver: 58-31	1. First formal release driver and software package 2. Power Saving is not supported yet 3. TX OFDMA is not supported yet 4. TKIP rekey is not support yet in WOWLAN mode 5. Shared buffer is set to 128K

Description:
Realtek provides the solution for WLAN in hardware and software. The software package could be adopted for Realtek RTL8852B/ RTL8832B USB WLAN series hardware on Linux based platforms.

Software Version:
RTL8852B/ RTL8832B USB Linux Driver Version: v1.19.21-86-g85f01e54fa.20250826

Hardware Supported:
- RTL8852BU
- RTL8832BU

Software Package Feature:
- IEEE 802.11 b/g/n/ac/ax WiFi compliant
- 802.1x, WEP, WPA TKIP andWPA2 AES/Mixed mode for PSK and TLS (Radius)
- WPA3-SAE R3
- WPS - PIN and PBC Methods
- IEEE 802.11b/g/n/ac/ax Client mode
  - Support wireless security for WEP, WPA TKIP and WPA2 AES PSK
  - Support site survey scan and manual connect
  - Support WPA/WPA2 TLS client
- Soft AP mode
- WiFi-Direct
- Miracast
- BT-COEXIST
- WOWLAN

Platform Supported:
- Linux (kernel 3.13 ~ 6.14)
  - For supporting IEEE802.11ax(Wi-Fi 6) : kernel >= v4.20
- Android 8, 9, 10, 11, 12, 13 and 14

CPU supported:
- x86
- ARM
- MIPS

Apply new regulatory setting rule:
CAUTION : *MUST* config to match the certification status of shipping product, otherwise regression issue on regulatory may happen.