

**Product:** RTL8811C/RTL8821C/RTL8731A USB Software Package - Linux Driver

**Version:** v5.12.0.3-0-gd06619466.20210708\_COEX20200730-5151

### Release History:

v5.2.5_21684.20170329_COEX20170310-1212	1. First release.
v5.2.5.1_22211.20170517_COEX20170310-1212	1. Fix not expected IQK 2. Update adaptivity for new ETSI spec. (CE-RED)
v5.2.5.2_23102.20170725_COEX20170310-1212	1. Add 8811CU PID VID 2. Update phydm
v5.2.5.3_24795.20171031_COEX20170310-1212	1. Fixed WPA2 vulnerability - key reinstallation attacks(KRACKs)
v5.2.15_26201.20180116_COEX20171114-2525	1. Update BT coex to 20171114-2525 2. Update phy parameters to 0x48 3. Support 8811CU 4. Support Android 8.0 5. Support LED 6. Support Kernel 4.12.12 7. Fix monitor mode can not sniffer Beacon pkt 8. Correct SoftAP Beacon TIM IE
v5.2.15.1_27326.20180403_COEX20171114-2525	1. Support Android O CTS/VTS testing 2. Support DFS Slave CSA action frame 3. Fix DFS Master issue 4. Fix some RFE type efuse power index issue
v5.2.15.2_27778.20180515_COEX20171114-2525	1. Fix MU-MIMO with some AP IOT issue
v5.2.15.3_28211.20180611_COEX20171114-2525	1. Fix compile error when kernel version less than 3.0 2. Fix WOWLAN GPIO wakeup can not control GPIO 6 , 7
v5.4.1_28754.20180921_COEX20180712-3232	1. Update BT coex to 20180712-3232 2. Update phy parameters to 0x49 3. Support Mesh 4. Support Linux kernel 4.16 5. Support Android 9 6. Fix Softap mode 8 STA connected issue 7. Fix some DFS issue
v5.4.1.1_31831.20181227_COEX20180712-3232	1. Support RWTK feature
v5.8.1_34171.20190628_COEX20190509-4141	1. Update BT coex to 20190509-4141 2. Update phy parameters to 0x54 3. Support WPA3-SAE (Personal) 4. Support Kernel 5.0 5. Fix sometimes IOS AP connect fail issue
v5.8.1.1_34311.20190729_COEX20190509-4141	1. Fix WPA3 concurrent issue 2. Fix BT coex A2DP + wifi LPS throughput issue
v5.8.1.2_35530.20191025_COEX20191014-4141	1. Hotfix P2P NoA buffer potentially overflow
v5.8.1.3_35898.20191211_	1. Support up to kernel 5.3

COEX20191014-4141	
v5.8.1.3_35898.20200225_COEX20191014-4141	1. Support 8731AU
v5.8.1.4_36409.20200313_COEX20191014-4141	1. Support 8731AU PID 2. Fix compiler error for WPA3 3. Fixed for BT can't write eFuse 4. Fix MP mode bug
v5.8.1.5_36625.20200416_COEX20200321-4141	1. Fix kr00k issue 2. Update the BT coex to 20200321-4141 to fix the issue that listening to music with BT may not be smooth 3. Fix the issue of scan results being filtered out by Android framework 4. Makes it easier for the driver to meet the conditions for running the scan on the Android platform
v5.8.1.6_37012.20200617_COEX20200616-4141	1. Support 8821CUH PID 2. Support up to kernel 5.6 3. Improve 4-way handshake success when the signal is weak or the AP exhibits unpredictable behavior 4. Update the BT coex to 20200616-4141 to fix the issue that BT connection and disconnection may fail 5. Fix can't trigger disconnect while change of AP channel when scan triggers frequently 6. Fixed the issue that antenna diversity could not be turned on in Wi-Fi solo cards with 2 antennas 7. Fixed the issue of not being able to PG BT eFuse 8. Fixed the issue that cloned skb may be released unexpectedly by the kernel
v5.8.1.7_37266.20200929_COEX20200616-4141	1. Support up to kernel 5.8 2. Correct wireless mode show in iwconfig 3. Fixed the flow of doing layer 2 roaming during driver scanning to improve roaming success rate
v5.12.0-16-g5229e7f95.20210118_COEX20200730-5151	1. Support Android 10 2. Support Android 11 3. Support WPA3-Enterprise (Suite-B 192-bit) 4. Support manual TPC 5. Support Agile Multiband (MBO) for STA mode 6. Support getting regulatory setting from OS 7. Update the BT coex to 20200730-5151
v5.12.0.1-13-gb6f0de320.20210531_COEX20200730-5151	1. Support up to kernel 5.11 2. Fix A-MSDU & fragment design flaw issue 3. Support WAPI 1.0 station mode
v5.12.0.3-0-gd06619466.20210708_COEX20200730-5151	1. Fix A-MSDU & fragment design flow issue to pass WPA2 Security Improvement certification 5.2.3

**Description:**

Realtek provides the solution for WLAN in hardware and software. The software package could be adopted for Realtek RTL8811C/RTL8821C/RTL8731A USB WLAN series hardware on Linux based platforms.

**Software Version:**

RTL8811C/RTL8821C/RTL8731A USB Linux Driver Version: v5.12.0.3-0-gd06619466.20210708\_COEX20200730-5151

**Hardware Supported:**

- RTL8811CU
- RTL8821CU
- RTL8821CUH
- RTL8731AU

**Software Package Feature:**

- IEEE 802.11 b/g/n/ac WiFi compliant
- 802.1x, WEP, WPA TKIP and WPA2 AES/Mixed mode for PSK and TLS (Radius)
- WPA3-SAE (Personal)
- WPA3-Enterprise (Suite-B 192-bit)
- WAPI 1.0 station mode
- WPS - PIN and PBC Methods
- IEEE 802.11b/g/n/ac 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
  - Support power saving mode
- Soft AP mode
- WiFi-Direct
- Miracast
- MU-MIMO
- BT-COEXist
- Mesh
- Wake on WLAN

**Platform Supported:**

- Linux (kernel 2.6.18 ~ 5.11)
- Android 1.6 ~ 2.3, 4.0 ~ 11.x

**CPU supported:**

- x86
- ARM
- MIPS