

**Product:** RTL88x2B USB Software Package - Linux Driver  
**Version:** v5.6.1.6\_35492.20191025\_COEX20180928-6a6a

**Release History:**

v5.1.0-5_18711.20160725_BTCOEX20160707-2100_beta	<ol style="list-style-type: none"> <li>1. First beta driver</li> </ol>
v5.1.6_18923.20160805_BTCOEX20160805-2500_beta	<ol style="list-style-type: none"> <li>2. Enable TX power by rate</li> <li>3. Update BTCOEX version</li> <li>4. Update phydm parameters</li> <li>5. Update FW</li> <li>6. Fix concurrent setting</li> <li>7. Fix TX power limit</li> </ol>
v5.1.7_19806.20161025_BTCOEX20161024-3333	<ol style="list-style-type: none"> <li>1. First normal release.</li> <li>2. Update PHY parameters to V63</li> <li>3. Update FW to V8.1</li> <li>4. Update phydm API</li> <li>5. Update BTCOEX version to BTCOEX20161024-3333</li> <li>6. Update HALMAC version to V1_03_02</li> <li>7. Fix scan DIG issue</li> <li>8. Fix no rx pkt issue</li> <li>9. Fix LPS cmd parameter</li> <li>10. Fix Efues access problem</li> <li>11. Fix compile error</li> <li>12. Enable NAPI &amp; GRO</li> </ol>
v5.2.4_22552.20170531_COEX20170518-4444	<ol style="list-style-type: none"> <li>1. Update BTCOEX version to COEX20170518-4444</li> <li>2. Update phy parameters</li> <li>3. Update FW to v13.1</li> <li>4. Support multi port P2P PS</li> <li>5. Update ChannelPlan document</li> <li>6. Correct DFS setting</li> <li>7. Fix compile error in kernel 4.6 &amp; 4.7</li> <li>8. Fix the mailbox hang problem for COEX</li> <li>9. Fix system crash due to thread not terminated safely when remove driver</li> <li>10. Correct register for Wowlan control</li> <li>11. Fix for power tracking phydm stop</li> <li>12. Update halmac version to V1_03_09</li> <li>13. Correct beacon interval setting</li> <li>14. Fix system hang due to stop xmit thread repeatedly</li> <li>15. Fix potential memory out of range</li> <li>16. Support CE-RED. 2G: ETSI v2.1.1 / 5G: ETSI v2.1.0</li> </ol>
v5.2.4.1_22719.20170613_COEX20170518-4444	<ol style="list-style-type: none"> <li>1. Update halmac version to V1_03_09_patch1 to resolve tx fail after resume</li> </ol>

	<ol style="list-style-type: none"> <li>2. Update parameter to be more tolerance in disconnect decision behavior</li> <li>3. Use driver IQK to let performance more stable</li> </ol>
v5.2.4.2_24927.20171101_COEX20171012-4444	<ol style="list-style-type: none"> <li>1. Fixed WPA2 vulnerability - key reinstallation attacks(KRACKs).</li> <li>2. Update BT/COEX version to 20171012-4444</li> <li>3. Fix MP issue</li> <li>4. Fix encrypt broadcast packet fail for SoftAP/GO</li> <li>5. Fix potential memory overwrite</li> <li>6. Update ChannelPlan document</li> </ol>
v5.2.4.3_24934.20171101_COEX20171012-5044	<ol style="list-style-type: none"> <li>1. Update BT/COEX version to 20171012-5044</li> </ol>
v5.2.4.4_25643.20171212_COEX20171012-5044	<ol style="list-style-type: none"> <li>1. Fix monitor mode issue</li> <li>2. Fixed WPA2 vulnerability - key reinstallation attacks(KRACKs) (update)</li> <li>3. Support Android 8.0</li> </ol>
v5.2.4.5_26498.20180205_COEX20171012-5044	<ol style="list-style-type: none"> <li>1. Add LED function</li> <li>2. Support Kernel 4.9</li> <li>3. Update HALMAC to V1_03_09_patch5 to improve IO stability</li> </ol>
v5.3.1_27678.20180430_COEX20180427-5959	<ol style="list-style-type: none"> <li>1. Update Phydmm version to v24</li> <li>2. Update Phy parameter to v104</li> <li>3. Update WiFi FW to v22.6</li> <li>4. Update BT Coex to COEX20180427-5959</li> <li>5. Correct DFS master function</li> <li>6. Support SU-Beamformee</li> <li>7. Support MU-Beamformee</li> <li>8. Fix MP issue</li> <li>9. Enable FW IQK</li> <li>10. Support TDLS</li> <li>11. Support LED</li> <li>12. Fix IO race condition</li> <li>13. Support WiFi-HAL for Android 8</li> <li>14. Support Kernel 4.15</li> </ol>
v5.3.1.1_28924.20180813_COEX20180427-5959	<ol style="list-style-type: none"> <li>1. Update phydmm to support RFE type 18</li> <li>2. Update halmac</li> <li>3. Update channel plan</li> <li>4. Fix some racing issue</li> <li>5. Fix disconnection issue</li> <li>6. Fix efuse compare fail</li> </ol>
v5.3.1.2_29146.20180814_COEX20180427-5959	<ol style="list-style-type: none"> <li>1. Fix WoWLAN WPA2 TKIP FW offload issue</li> </ol>
v5.3.1.3_29743.20180918_COEX20180427-5959	<ol style="list-style-type: none"> <li>1. Support Android P</li> </ol>
v5.6.1_30362.20181031_COEX20180928-6a6a	<ol style="list-style-type: none"> <li>1. Update BT/COEX to COEX20180928-6a6a</li> </ol>

	<ol style="list-style-type: none"> <li>2. Update Phydm version to v33</li> <li>3. Update WiFi FW to v27.06</li> <li>4. Update channel plan</li> <li>5. Fix DFS master issue</li> </ol>
v5.6.1_30362.20181109_COEX20180928-6a6a	<ol style="list-style-type: none"> <li>1. Fix driver version number</li> </ol>
v5.6.1.2_32629.20190321_COEX20180928-6a6a	<ol style="list-style-type: none"> <li>1. Support WPA3 personal for STA mode</li> <li>2. Fix WiFi logo</li> <li>3. Update PHY parameters v.113</li> <li>4. Update PHYDM API</li> </ol>
v5.6.1.3_32873.20190409_COEX20180928-6a6a	<ol style="list-style-type: none"> <li>1. Fix LPS issue</li> <li>2. Update WiFi FW to v27.09</li> </ol>
v5.6.1.4_33294.20190430_COEX20180928-6a6a	<ol style="list-style-type: none"> <li>1. Support PNO</li> <li>2. Update WiFi FW to v27.10</li> </ol>
v5.6.1.5_33902.20190604_COEX20180928-6a6a	<ol style="list-style-type: none"> <li>1. Support WPA3-SAE (Personal)</li> </ol>
v5.6.1.6_35492.20191025_COEX20180928-6a6a	<ol style="list-style-type: none"> <li>1. Support up to Android Q</li> <li>2. Support up to kernel 5.3</li> <li>3. Hotfix P2P NoA buffer potentially overflow</li> </ol>

**Description:**

Realtek provides the solution for WLAN in hardware and software. The software package could be adopted for Realtek RTL88x2B USB WLAN series hardware on Linux based platforms.

**Software Version:**

RTL88x2B USB Linux Driver Version: v5.6.1.6\_35492.20191025\_COEX20180928-6a6a

**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
- 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

**Hardware Supported:**

- RTL8812BU and RTL8822BU

**Platform Supported:**

- Linux (kernel 2.6.24 ~ 5.3)
- Android 1.6 ~ 2.3, 4.0 ~ 10.x

**CPU supported:**

- x86
- ARM
- MIPS