

Rockchip Linux Wi-Fi BT Situation

ver1.5 2022.06.05

Revision No.	History	Date
1.5	支持ATBM6031 AIC8000 BES2600	2022.06.05
1.4	支持SSV6155P, 对AC/AX含义进行说明 对kernel:列说明: 是指目前WiFi驱动支持的最高的版本, 且向下兼容低版本内核	2022.04.06
1.3	增加低功耗及kernel版本说明	2022.01.12
1.2	Add RTL8188FTV-VC and RTL8188FTV-VQ1 (USB)	2021.12.12
1.1	Add WiFi6 AP6275X	2021.08.22
1.0	initial release	2021.06.12

Note:

- 1、如果需要支持AP/Realtek的其它型号, 可以参考WiFiBT开发文档里面的移植章节进行移植即可;
- 2、如果使用其它厂家的模组或芯片, 则需要联系原厂协助你们移植驱动到我们平台, 移植相关事项也可参考WiFiBT开发文档进行移植;
- 3、WiFiBT开发文档及本文档的最新版本下载地址: <https://redmine.rock-chips.com/documents/52>
- 4、Hi3861/3881: 已在我们平台验证可以使用, 但驱动代码需要找模组厂要, 在RK平台的移植补丁可以通过redmine提问题获取补丁;
- 5、**kernel**: 是指目前WiFi驱动支持的最新版本, 向下兼容低版本内核;
- 6、**Low Power**: 是指支持休眠保活、心跳、唤醒功能的模块, 且功耗都在几百uA以内(在连接路由器的情况下);
- 7、模组尺寸: N/A表示需要找模组厂进行确认;
- 8、AC:表示WiFi5, AX:表示WiFi6;

WiFi Chip	IFACE	IEEE 802.11 Standard	2.4GHz Band	5.0GHz Band	HT40	BT	SDIO3.0	MIMO	BT4.2	BT5.0	kernel	Low Power	模组
AP6212/A AP6214/A	SDIO	IEEE 802.11B/G/N	✓	✗	✗	✓	✗	✗	✗	✗	4.19	✗	
AW-NB197SM AW-NB372SM	SDIO	IEEE 802.11B/G/N	✓	✗	✗	✓	✗	✗	✓	✗	4.19	✗	
AP6255	SDIO	IEEE 802.11A/B/G/N/AC	✓	✓	✓	✓	✓	✗	✓	✗	4.19	✗	

AP6256	SDIO	IEEE 802.11A/B/G/N/AC	✓	✓	✓	✓	✓	×	✓	✓	4.19	×	pin to pin
AW-CM256SM AW-CM390SM	SDIO	IEEE 802.11A/B/G/N/AC	✓	✓	✓	✓	✓	×	✓	×	4.19	×	
RTL8723DS	SDIO	IEEE 802.11B/G/N	✓	×	✓	✓	×	×	✓	×	4.19	×	
RTL8189FTV	SDIO	IEEE 802.11B/G/N	✓	×	✓	×	×	×	×	×	5.10	×	
RTL8821CS	SDIO	IEEE 802.11B/G/N/AC	✓	✓	✓	✓	✓	×	✓	×	4.19	×	
RTL8188FTV- VC	USB	IEEE 802.11B/G/N	✓	×	×	×	×	×	×	×	5.10	×	
RTL8188FTV- VQ1	USB	IEEE 802.11B/G/N	✓	×	✓	×	×	×	×	×	5.10	×	
RTL8188EU	USB	IEEE 802.11B/G/N	✓	×	✓	×	×	×	×	×	4.19	×	
RTL8822BS	SDIO	IEEE 802.11B/G/N/AC	✓	✓	✓	✓	✓	×	✓	×	4.19	×	
RTL8822CS	SDIO	IEEE 802.11B/G/N/AC	✓	✓	✓	✓	✓	×	✓	×	4.19	×	
AP6181	SDIO	IEEE 802.11B/G/N	✓	×	×	×	×	×	×	×	4.19	×	
AP6236 AP6216	SDIO	IEEE 802.11B/G/N	✓	×	×	✓	×	×	✓	×	4.19	×	
AP6201BM	SDIO	IEEE 802.11B/G/N	✓	×	×	✓	×	×	✓	✓	4.19	✓	
AP6203BM	SDIO	IEEE 802.11B/G/N	✓	✓	×	✓	×	×	✓	✓	4.19	✓	
AP6354 AP6356S	SDIO	IEEE 802.11B/G/N/AC	✓	✓	✓	✓	✓	✓	✓	×	4.19	×	
SV6158/6256	SDIO	IEEE 802.11B/G/N	✓	×	×	×	×	×	×	×	4.19	×	
RK912	SDIO	IEEE 802.11B/G/N	✓	×	×	×	×	×	×	×	4.19	×	

RK915	SDIO	IEEE 802.11B/G/N	✓	✗	✗	✗	✗	✗	✗	✗	4.19	✗	
SV32WB0X	SDIO	IEEE 802.11B/G/N	✓	✗	✗	✗	✗	✗	✗	✗	4.19	✓	N/A
Hi3861L	SDIO	IEEE 802.11B/G/N	✓	✗	✗	✗	✗	✗	✗	✗	4.19	✓	N/A
Hi3861/3881	SDIO	IEEE 802.11B/G/N	✓	✗	✗	✗	✗	✗	✗	✗	4.19	✗	N/A
AP6275S	SDIO	IEEE 802.11B/G/N/AC	✓	✓	✓	✓	✓	✓	✗	✓	4.19	✗	13*15*1.5mm
AP6398S	SDIO	IEEE 802.11B/G/N/AC	✓	✓	✓	✓	✓	✓	✓	✓	4.19	✗	13*15*1.5mm
AP6398SR3	SDIO	IEEE 802.11B/G/N/AC	✓	✓	✓	✓	✓	✓	✓	✓	4.19	✗	13*15*1.5mm
AP6398SV	SDIO	IEEE 802.11B/G/N/AC	✓	✓	✓	✓	✓	✓	✓	✓	4.19	✗	13*15*1.5mm
AP6398SV3	SDIO	IEEE 802.11B/G/N/AC	✓	✓	✓	✓	✓	✓	✓	✓	4.19	✗	13*15*1.5mm
AP6275S	SDIO	IEEE 802.11B/G/N/AC/AX(WIFI6)	✓	✓	✓	✓	✓	✓	✓	✓	5.10	✗	13*15*1.5mm
AP6275SR3	SDIO	IEEE 802.11B/G/N/AC/AX(WIFI6)	✓	✓	✓	✓	✓	✓	✓	✓	5.10	✗	13*15*1.5mm
AP6275P	PCIE	IEEE 802.11B/G/N/AC/AX(WIFI6)	✓	✓	✓	✓	✗	✓	✓	✓	5.10	✗	13*15*1.5mm
AP6275PR3	PCIE	IEEE 802.11B/G/N/AC/AX(WIFI6)	✓	✓	✓	✓	✗	✓	✓	✓	5.10	✗	13*15*1.5mm
RTL8821CU	USB	IEEE 802.11B/G/N/AC	✓	✓	✓	✓	✗	✓	✓	✗	5.10	✗	13.0*12.2mm
RTL8822CE	PCIE	IEEE 802.11B/G/N/AC	✓	✓	✓	✓	✓	✓	✓	✓	5.10	✗	M.2
RTL8822BU	USB	IEEE 802.11B/G/N/AC	✓	✓	✓	✓	✗	✓	✓	✗	4.19	✗	18.0*27.0mm
SSV6155P	USB	IEEE 802.11B/G/N	✓	✗	✗	✗	✗	✗	✗	✗	5.10	✗	N/A
ATBM6031	SDIO	IEEE 802.11B/G/N	✓	✗	✓	✗	✗	✗	✗	✗	5.10	✗	N/A
AIC8800	SDIO	IEEE 802.11B/G/N/AX(WIFI6)	✓	✓	✓	✓	✗	✓	✓	✓	4.19	✗	N/A

[illegible]