

# Realtek Semiconductor Corp.

Federal Communications Commission  
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Columbia MD 21046

C.C.: Telefication B.V., Dept. FCC TCB  
Edisonstraat 12A  
6902 PK ZEVENAAR  
The Netherlands

Subject: Requesting Class II permissive change for FCC ID: TX2-RTL8852AE  
To Whom It May Concern:

The purpose of this letter is to request a Class II Permissive change for FCC ID: TX2-RTL8852AE, original granted on 10/16/2020.

The major change field under this application is:

1. The subject approved module is being used in a portable configuration- a Notebook Computer (Brand name/Model: see SAR test report), the distance between antenna and human body is 0mm and the original module report the distance is 20cm. SAR testing was performed to demonstrate RF compliance.
2. The difference compared with the original module design is antenna change. Two groups antennas are used for the subject approved module in the Notebook Computer as below listed.

Original module:

Antenna Type	Frequency Range (MHz)	Peak Gain (dBi)
PIFA	2400 - 2500	3.5
	5150 - 5850	5
Dipole	2400 - 2500	3.14
	5150 - 5850	5

Group 1 for Notebook computer:

Ant.	Brand	Model	Type	Frequency Range (MHz)	Gain (dBi)
Ant S0 (Main Ant)	Luxshare	L01RF285-NB-H	PIFA Antenna	2400-2500MHz	-1.35
				5150-5350MHz	1.88
				5470-5725MHz	1.36
				5725-5850MHz	0.01
Ant S1 (Aux Ant)	Luxshare	L01RF286-NB-H	PIFA Antenna	2400-2500MHz	-0.68
				5150-5350MHz	-0.39

				5470-5725MHz	-0.89
				5725-5850MHz	-0.89

Group 2 for Notebook Computer:

Ant.	Brand	Model	Type	Frequency Range (MHz)	Gain (dBi)
Ant S0 (Main Ant)	INPAQ	MDA-LB-02-034	PIFA Antenna	2400-2500MHz	2.02
				5150-5350MHz	-0.02
				5470-5725MHz	1.03
				5725-5850MHz	2.89
Ant S1 (Aux Ant)	INPAQ	MDA-LB-02-035	PIFA Antenna	2400-2500MHz	-1.15
				5150-5350MHz	-0.03
				5470-5725MHz	0.48
				5725-5850MHz	2.81

3. For the Notebook Computer, since it is client without DFS radar detection capability, detection threshold as set to the module remains identical, and would deactivate the link as it is operated with AP only, DFS test can be excluded.

Please contact me if you have any questions or need further information regarding this application.

Best Regards

Name: Dana Liaw  
Function: Project Manager  
Date: 2021.03.29

Signed: 