

Razer Inc.

Federal Communications Commission
7435 Oakland Mills Road
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: RWO-RZ090368QCNFA
To Whom It May Concern:

The purpose of this letter is to request a Class II Permissive change for
FCC ID: RWO-RZ090368QCNFA, original granted on 08/03/2021.
FCC ID: RWO-RZ090368QCNFA, class II permissive change on 04/06/2022.

The major change field under this application is:

1. The subject approved module is being used in a portable configuration- a Notebook (Brand name/Model: RAZER/ RZ09-0427), the distance between antenna and human body is 0 mm and the original module report the distance is 20 mm. 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 Set	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range	Cable Loss (dB)	Antenna Type	Connector Type	Cable Length
1	Chain0/1	HONGBO	260-25094	3.53	2.4~2.4835 GHz	0.76	PIFA	i-pex(MHF 4L)	300mm
				3.06	5.15~5.25 GHz	1.16			
				3.07	5.25~5.35 GHz	1.18			
				4.81	5.47~5.725 GHz	1.2			
				4.2	5.725~5.850 GHz	1.27			
2	Chain0/1	HONGBO	260-25083	5.09	5.850~5.895 GHz	1.29	PIFA	i-pex(MHF 4L)	300mm
				5.14	5.925~6.425 GHz	1.32			
				5.09	6.425~6.525 GHz	1.35			
				5.16	6.525~6.875 GHz	1.4			
				5.12	6.875~7.125 GHz	1.45			
3	Chain0/1	HONGBO	260-25084	3.22	2.4~2.4835 GHz	0.5	Monopole	i-pex(MHF 4L)	200mm
				3.35	5.150~5.250 GHz	0.76			
				3.42	5.250~5.350 GHz	0.78			
				4.77	5.470~5.725 GHz	0.81			
				4.72	5.725~5.850 GHz	0.85			
				4.71	5.850~5.895 GHz	0.86			
				4.75	5.925~6.425 GHz	0.87			
				4.29	6.425~6.525 GHz	0.91			
				4.81	6.525~6.875 GHz	0.96			
				4.74	6.875~7.125 GHz	0.98			

Notebook : Antenna Type :Main Antenna / Aux Antenna :PIFA

Antenna Gain (dBi)	Brand	Main Antenna	Aux Antenna
	Bluetooth	3.02	/
	WLAN 2.4G	3.02	3.16
	WLAN 5.2G	3.03	3.01
	WLAN 5.3G	3.03	3.05
	WLAN 5.6G	4.52	4.17
	WLAN 5.8G	4.10	4.07
	WLAN 5.9G	3.77	4.06

3. For the Notebook , 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.
4. Reduce the Output Power through software, and SAR measurement was evaluated.

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

Best Regards

Name: Johnsen Tia
Title: Senior Engineer
Date: 2022-04-07
Signed:

