

Razer Inc.

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: RWO-RZ090510.
To Whom It May Concern:

The purpose of this letter is to request a Class II Permissive change for FCC ID: RWO-RZ090510, granted on 11/20/2023.
The major change field under this application is:

1. The subject approved module is being used in a portable configuration- a Notebook PC (Brand name/Model: RAZER/ RZ09-0510), the distance between antenna and human body is 0mm. SAR testing was performed to demonstrate RF compliance. Because the antenna gain is lower than that of the module, RF testing was also 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 INFORMATION (2.4 GHz)	
ANTENNA DESCRIPTION	GAIN (dBi) or Integral
PIFA Reference Antenna	2.95
Dipole Reference Antenna	2.95
Monopole Reference Antenna	2.83

ANTENNA INFORMATION (5.150 – 5.895 GHz)	
ANTENNA DESCRIPTION	GAIN (dBi) or Integral
PIFA Reference Antenna	5.11 – 5.15
Dipole Reference Antenna	4.03 – 5.15
Monopole Reference Antenna	4.43 – 4.95

ANTENNA INFORMATION (5.925-7.125 GHz)	
ANTENNA DESCRIPTION	GAIN (dBi) or Integral
PIFA Reference Antenna	4.88 – 5.02
Dipole Reference Antenna	4.49 – 5.02
Monopole Reference Antenna	4.79 – 4.91

Notebook:

Antenna Information	Ant.	Manufacturer	Ant. Part number	Type	Frequency Range (MHz)	Gain (dBi)
	Main Ant	Amphenol Taiwan Corporation	BY510A-15-001-C	PIFA	2400-2483.5	2.92
					5150-5250	2.42
					5250-5350	3.77
					5470-5725	3.10
					5725-5850	2.21
					5925-6425	2.17
	Aux Ant	Amphenol Taiwan Corporation	BY510A-15-001-C	PIFA	2400-2483.5	2.88
					5150-5250	1.04
					5250-5350	1.58
					5470-5725	2.64
					5725-5850	3.67
					5925-6425	2.64

3. 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: Director, Regulatory & Compliance
Date: 2023-12-18

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