

Date: January 11, 2024

Federal Communications Commission
7435 Oakland Mills Road
Columbia MD 21046

Requesting Class II permissive change

To Whom It May Concern:

The purpose of this letter is to request a Class II Permissive change for
FCC ID: **N6C-PCEAX**, Original grant date: April 21, 2022

The major change filed under this application is :

1. Evaluation has been done to ensure compliance of EMC and RF exposure.
2. The hardware design of this transmitter that may affect compliance is remained unchanged in this permissive change application.
3. The security mechanism according to section II of KDB 594280 D02 is remained unchanged as it reported to the FCC at the initial certification.
4. Adding new antenna(s) of the same type and higher gain compared to original grant conditions, please refer next pages for details.
5. RF output power of UNII-4 and 6GHz have been decreased as higher gains are used. verification is performed in the test report for new power level that lower than the original conditions.
A specific SKU is designated for the decreased output power to ensure the correct antenna is being used for compliance.
6. When associated and connected with a low-power indoor access point, subordinate or standard access point device, will operate at a power lower than or 6 dB below the power advertised by the standard access point.

Annex

FCC ID: N6C-PCEAX

IC: 4908A-PCEAX

Adding new antenna(s) with same antenna type and bigger gain as below,

QCA Original antenna

Antenna Type	Supplier	Antenna Part No.	Freq.	Peak Antenna Gain (dBi)
Monopole	HONGBO	260-25084	2.4GHz	3.22
			5.150-5.250 GHz	3.35
			5.250-5.350 GHz	3.42
			5.470-5.725 GHz	4.77
			5.725-5.850 GHz	4.72
			5.850-5.895 GHz	4.71
			5.925-6.425 GHz	4.75
			6.425-6.525 GHz	4.29
			6.525-6.875 GHz	4.81
			6.875-7.125 GHz	4.74

Additional antennas

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
Monopole	2J antennas	2JZ74	2.4GHz	4.9
			5.150-5.250 GHz	1.9
			5.250-5.350 GHz	1.7
			5.470-5.725 GHz	4.9
			5.725-5.850 GHz	4.6
			5.850-5.895 GHz	4.1
			5.925-6.425 GHz	4.1
			6.425-6.525 GHz	5.4
			6.525-6.875 GHz	5.5
			6.875-7.125 GHz	4.3
Monopole	Taoglas	GW.05.0153	2.4GHz	3.686
			5.150-5.250 GHz	2.46
			5.250-5.350 GHz	2.482
			5.470-5.725 GHz	4.267
			5.725-5.850 GHz	2.44
			5.850-5.895 GHz	4.043
			5.925-6.425 GHz	4.412
			6.425-6.525 GHz	3.166
			6.525-6.875 GHz	3.713
			6.875-7.125 GHz	5.326

Sincerely,



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