FCC ID: 2AIWVN101 IC: 21649-N101

The product has Bluetooth Low Energy (BLE) and 802.11abgn capabilities. The product is not capable of simultaneous transmission of different signals as they all have to be transmitted over the same antenna. Transmissions from different modes can only occur one at a time.

BLE

$$S = \frac{PG}{4\pi R^2}$$

where:	S = power dens	ity									
	P = power input	to the anter	nna								
	G = power gain of the antenna in the direction of interest relative to an isotropic radiator										
	R = distance to	the center c	f radiatio	tenna							
Maxir	num peak output	power at th	9.81	(dBm)							
Maxir	num peak output	power at th	9.571940713	(mW)							
		An	tenna gai	n(typical):	4	(dBi)					
		Maxi	mum ante	enna gain:	2.511886432	(numeric)					
		F	rediction	distance:	20	(cm)					
		Prediction frequency:			2402	(MHz)					
MPE limit fo	r uncontrolled exp	osure at pr	1	(mW/cm^2)							
	Power	l <mark>ensity</mark> at pr	0.004783	(mW/cm ²	2)						

2.4GHz WiFi

$$S = \frac{PG}{4\pi R^2}$$

where:	S = power density								
	P = powe	r input to	the anter	nna					
	G = powe	r gain of	the anter	na in the	f interest relative to an isotropic radiator				
	R = distar	nce to the	e center o	f radiatio	tenna				
Maxir	num peak d	output po	wer at the	23.04	(dBm)				
Maxir	Maximum peak output power at the antenna terminal:						(mW)		
			An	tenna gai	n(typical):		(dBi)		
			Maximum antenna gain:			2.511886432	(numeric)	
			P	rediction	distance:	20	(cm)		
					requency:		(MHz)		
MPE limit fo	MPE limit for uncontrolled exposure at prediction frequency:						(mW/cm/	\ 2)	
	Power density at prediction frequency:						(mW/cm/	\ 2)	

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5GHz WiFi

$$S = \frac{PG}{4\pi R^2}$$

where:	S = power	r density							
	P = power	r input to	the anter	nna					
	G = power	r gain of	the anter	na in the	of interest relative	to an iso	tropic rac	diator	
	R = distan	ice to the	e center o	f radiatio	tenna				
Maximun	n average o	output po	wer at the	14.36	(dBm)				
Maximun	n average o	wer at the	27.28977783	(mW)					
			An	tenna gai	n(typical):	4	(dBi)		
			Maximum antenna gain:			2.511886432	(numeric)	
			Р	rediction	distance:	20	(cm)		
			Pr	ediction f	requency:	5500	(MHz)		
MPE limit fo	r uncontrolle	sure at pr	1	(mW/cm/	\ 2)				
	Po	ower der	nsity at pr	0.013637	(mW/cm/	^ 2)			

Conclusion:

Device complies with FCC's RF radiation exposure limits for general population in mobile exposure category (distance > 20cm)