

RF EXPOSURE EVALUATION FCC ID: 2ANYC-M9

Product Name	2.4G Bluetooth 2D barcode scanner				
Model name	: м9				
Serial model	: E9,2100,Z1S,NT-2025, NT-2021, NT-2026, E1, E2, E6, E8, E10				
Differences Description :	: All models are identical each other except for model name.				
Specification :	BLE				
Opcomodion	2.4G				
Operating frequency	BLE: 2402-2480MHz				
	2.4G: 2407-2478MHz				
Modulation :	: GFSK				
Ni walan af Olanan al	BLE: 40 channels				
Number of Channel	2.4G: 60 channels				
Antenna installation	BLE: PCB antenna				
	2.4G: Integrated antenna				
Antenna Gain	BLE: -0.12 dBi				
	2.4G: 0.36 dBi				
Power supply	Input: DC 5V				
	Battery:				
	Li-ion Battery :803040				
	Rated Voltage: 3.7V				
	Rated Capacity:1200mAh				
Hardware Version :	N/A				
Software Version :	N/A				



Standard Requirement

According to § 15.247(i) and § 1.1307b(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See KDB 447498 D01 General RF Exposure Guidance v06, section 4. 3. 1.

The 1-g and 10-g SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances ≤ 50mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]*[$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g SAR extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison.

The test exclusions are applicable only when the minimum test separation distance is ≤ 50mm and for transmission frequencies between 100MHz and 6GHz. When the minimum test separation distance is <5mm, a distance of 5mm is applied to determine SAR test exclusion. Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to quality for TCB approval.

RF Output power:

Freq. (MHz)	Field strength(max)(dBuV/m)	EIRP (max) (dBm)
2440	85.99	-9.21

Note: EIRP=E-104.8+20logD,

Where

E is the electric field strength in dBµV/m.

EIRP is the equivalent isotropically radiated power in dBm.

d is the specified measurement distance in m.

where D=3, EIRP=E-95.2.



Channel (MHz)	Maximum output power (dBm)	Tune up tolerance (dBm)	Max Tune Up Power (mW)	Distance (mm)	Calculation results	Limit	Operating Mode
2440	-9.21	-9.21 \pm 1	0.151008	5	0.047176	3	2.4G
2480	-4.71	-4.71±1	0.425598	5	0.134047	3	ВТ

According to KDB 447498, no stand-alone required antenna, and no simultaneous SAR measurement is required.

Signature

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Simon to