

FCC SAR Exemption declaration

FCC ID: 2ALS8-SS0003

Product: Segway Shared Kickscooter T60 Lite

Model: T60 Lite

Applicant: Ninebot (Changzhou) Tech Co.,Ltd.

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Refer to 447498 D01 General RF Exposure Guidance v06 Appendix B

SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and > 50 mm

Approximate SAR test exclusion power thresholds at selected frequencies and test separation distances are illustrated in the following table. The equation and threshold in 4.3.1 must be applied to determine SAR test exclusion.

MHz	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	mm
100	474	481	487	494	501	507	514	521	527	534	541	547	554	561	567	mW
150	387	397	407	417	427	437	447	457	467	477	487	497	507	517	527	
300	274	294	314	334	354	374	394	414	434	454	474	494	514	534	554	
450	224	254	284	314	344	374	404	434	464	494	524	554	584	614	644	
835	164	220	275	331	387	442	498	554	609	665	721	776	832	888	943	
900	158	218	278	338	398	458	518	578	638	698	758	818	878	938	998	
1500	122	222	322	422	522	622	722	822	922	1022	1122	1222	1322	1422	1522	
1900	109	209	309	409	509	609	709	809	909	1009	1109	1209	1309	1409	1509	
2450	96	196	296	396	496	596	696	796	896	996	1096	1196	1296	1396	1496	
3600	79	179	279	379	479	579	679	779	879	979	1079	1179	1279	1379	1479	
5200	66	166	266	366	466	566	666	766	866	966	1066	1166	1266	1366	1466	
5400	65	165	265	365	465	565	665	765	865	965	1065	1165	1265	1365	1465	
5800	62	162	262	362	462	562	662	762	862	962	1062	1162	1262	1362	1462	

Refer to FCC ID :XMR201909EC25AFX, Model:EC25-AFX;EC25-AFX MINIPCIE

Tune up power list:

Maximum conducted output power (measured)

Band	Maximum Conducted Output Power (dBm)	
	(dBm)	(mW)
WCDMA II	25.00	316.23
WCDMA IV	25.00	316.23
WCDMA V	25.00	316.23
LTE Band 2	25.00	316.23
LTE Band 4	25.00	316.23
LTE Band 5	25.00	316.23
LTE Band 12	25.00	316.23
LTE Band 13	25.00	316.23
LTE Band 14	25.00	316.23
LTE Band 66	25.00	316.23
LTE Band 71	25.00	316.23

Ref

Following FCC KDB 447498 D01 “General SAR test exclusion guidance”

The corresponding SAR Exclusion Threshold condition, listed below:

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

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR,16 where}$$

$f(\text{GHz})$ 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 ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum

test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

2) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:

a) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·(f(MHz)/150)] mW, at 100MHz to 1500 MHz

b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz

3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.

a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by [1 + log(100/f(MHz))] for test separation distances > 50 mm and < 200 mm.

b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by ½ for test separation distances ≤ 50 mm.

c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

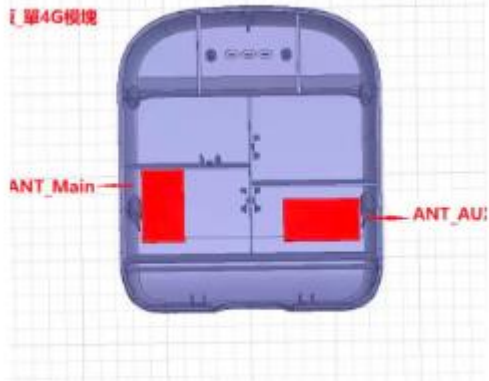
Wireless Interface	WCDMA Band V	WCDMA Band IV	WCDMA Band II	LTE Band 12	LTE Band 14	LTE Band 13	LTE Band 5	LTE Band 4	LTE Band 2	LTE Band 66	LTE Band 71	BLE
Maximum power (dBm)	25	25	25	25	25	25	25	25	25	25	25	0
Maximum rated power(mW)	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	1
Separation distance(mm)	80.0											
exclusion threshold	332.0	413.0	409.0	320.0	327.0	326.0	332.0	413.0	409.0	412.0	319.0	396.0
Testing required?	No	No	No	No	No	No	No	No	No	No	No	No

BLE and LTE module can transmit at the same time.

When the BLE and LTE module transmit at the same time, the power of BLE and LTE module are less than the exclusion threshold, the result refer to above table.

Therefore, if the nearest distance from the antenna to the human torso is $> 8\text{cm}$, SAR will be exempted from the test.

Antenna position



Measuring distance(left)

Measuring distance(right)

