

RF EXPOSURE MEASUREMENT AND TEST REPORT

For

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FCC ID: 2AJULC10G-CP

Report Type: Original Report		Product Type: Repeater			
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Report Number:	RSC160118	3006B			
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FCC §1.1307(b) & §2.1091 - MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart §1.1310, 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 level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure									
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Averaging Time (minutes)					
0.3–1.34	614	1.63	*(100)	30					
1.34–30	824/f	2.19/f	*(180/f²)	30					
30–300	27.5	0.073	0.2	30					
300–1500	/	/	f/1500	30					
1500–100,000	/	/	1.0	30					

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculated Formulary:

Predication of MPE limit at a given distance

 $S = PG/4\pi R^2 = power density (in appropriate units, e.g. mW/cm^2);$ P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

Calculated Data:

Mode	Frequency Band	Antenna Gain		Cable Loss	Max Tune-up Conducted Power		Evaluation Distance	Power Density	MPE Limit
		(dBi)	(numeric)	dB	(dBm)	(mW)	(cm)	(mW/cm ²)	(mW/cm ²)
Linlink	824-849	10.0	10.0	4.5	21.00	125.893	20.00	0.0889	0.55
Uplink	1850-1910	10.0	10.0	5.0	21.00	125.893	20.00	0.0792	1.00
Downlink	869-894	10.0	10.0	2.5	2.00	1.585	20.00	0.0018	0.58
	1930-1990	10.0	10.0	3.0	2.00	1.585	20.00	0.0016	1.00

Note: The power was used for evaluation is rated power including tolerance.

The worst antenna kitting is option 2 from outdoor antenna and option 2 for indoor antenna. Please refer the user manual.

Result: The device meet FCC MPE at 20 cm distance.

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