



中认信通

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



RF EXPOSURE EVALUATION REPORT

Applicant: Shenzhen Muxin Intelligent Technology Co., Ltd.

Address: 2H, Building 1, Tingwei Industrial Park, No.6 Liufang Road, Block 67,
Xingdong Community, Xin'an Subdistrict, Bao'an District, Shenzhen, China

FCC ID: 2BFNC-MM300

Product Name: AlwaysOn 4G Module

Standard(s): 47 CFR §1.1307, 47 CFR §2.1091

The above equipment has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: 2603U29925E-RF-00A

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Reviewed By: Calvin Chen

Title: RF Test Supervisor

Reviewed By: Sun Zhong

Title: Manager

Test Laboratory: China Certification ICT Co., Ltd (Dongguan)

Room 101 & 201, Building 2, 256 Pingdong Road, Dalang Town, Dongguan
City, Guangdong, China.

Tel: +86-769-83085888

www.ccttt.com.cn

Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the Room 101 & 201, Building 2, 256 Pingdong Road, Dalang Town, Dongguan City, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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Each test item follows the test standard(s) without deviation.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2603U29925E-RF-00A	Original Report	2026/7/27

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	AlwaysOn 4G Module
Trade Name:	TERRAMOW
EUT Model:	MM300
Rated Input Voltage:	DC 5V
EUT Received Date:	2026/6/12
EUT Received Status:	Good

2. RF EXPOSURE EVALUATION

2.1 RF Exposure Evaluation

2.1.1 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/cm ²)	Averaging Time (minutes)
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f)	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.

2.1.2 EIRP/ERP calculated and Results

Operation Modes	Conducted output power including Tune-up Tolerance (dBm)	Antenna Gain (dBi)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)
LTE B2	25.5	2.94	28.44	33
LTE B4	24.5	2.29	26.79	30
LTE B5	24.5	1.19	23.54	38.45
LTE B7	25.5	3.75	29.25	33
LTE B12	25	0.98	23.83	34.77
LTE B13	24.5	1.19	23.54	34.77
LTE B25	25.5	2.94	28.44	33
LTE B26	24	1.19	23.04	38.45
LTE B38	24.5	3.75	28.25	33
LTE B41	23.5	4.13	27.63	33
LTE B66	24.5	2.29	26.79	30
LTE B71	25	0.98	23.83	34.77

Note:

ERP (dBm) = Conducted output power (dBm) + Antenna Gain (dBi) -2.15

EIRP (dBm) = Conducted output power (dBm) + Antenna Gain (dBi)

2.1.3 Calculated Data:

Operation Modes	Frequency (MHz)	Antenna Gain		Conducted output power including Tune-up Tolerance		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
LTE B2	1850-1910	2.94	1.97	25.5	354.81	20	0.1391	1
LTE B4	1710-1755	2.29	1.69	24.5	281.84	20	0.0948	1
LTE B5	824-849	1.19	1.32	24.5	281.84	20	0.0740	0.549
LTE B7	2500-2570	3.75	2.37	25.5	354.81	20	0.1673	1
LTE B12	699-716	0.98	1.25	25	316.23	20	0.0786	0.466
LTE B13	777-787	1.19	1.32	24.5	281.84	20	0.0740	0.518
LTE B25	1850-1915	2.94	1.97	25.5	354.81	20	0.1391	1
LTE B26	814-849	1.19	1.32	24	251.19	20	0.0660	0.543
LTE B38	2570-2620	3.75	2.37	24.5	281.84	20	0.1329	1
LTE B41	2496-2690	4.13	2.59	23.5	223.87	20	0.1154	1
LTE B66	1710-1780	2.29	1.69	24.5	281.84	20	0.0948	1
LTE B71	663-698	0.98	1.25	25	316.23	20	0.0786	0.442

Note:

1. The device contain FCC ID: 2AJYU-8XS0002.
2. The Maximum Conducted Power including Tune-up Tolerance was declared by manufacturer.

Result: Compliant. The device compliant Simultaneous transmission at 20cm distances.

===== END OF REPORT =====