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1 Cover Page

RF Exposure Evaluation Report

Application No.: KSCR2403000456AT **FCC ID:** 2BF29GT573-LAAG35LA

Applicant: GOSUNCNWELINK TECHNOLOGY CO.,LTD.

Address of Applicant:

ROOM 606, TOWER A, GONGXIANG BUILDING, NO.78 NORTH KEYUAN ROAD, NANSHAN DISTRICT, SHENZHEN,CHINA

Manufacturer: Gosuncn Technology Group Co., Ltd.

Address of Manufacturer: 6F, No. 2819, KaiChuang Avenue, Science City, Huangpu District,

Guangzhou City, Guangdong Province, China

Factory: DBG TECHNOLOGY CO., LTD

Address of Factory:

No.5, Yongda Road, Xiang Shui River Industrial Area, Daya Bay,

Huizhou City, 516083 Guangdong, P. R. China

Equipment Under Test (EUT):

EUT Name: HARDWARE ASSY-TELEMATIC NODE

Model No.: GT573-LA
Trade Mark: GOSUNCN

FCC Rules 47 CFR §2.1091

Standard(s): KDB 447498 D04 interim General RF Exposure Guidance v01

RSS-102 Issue 5 Amendment 1 (February 2, 2021)

Date of Receipt: 2024-03-18

Date of Test: 2024-03-28 to 2024-04-10

Date of Issue: 2024-04-12

Test Result: Pass*

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^{*} In the configuration tested, the EUT complied with the standards specified above.



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Revision Record						
Version	Description	Date	Remark			
00	Original	2024-04-12	/			

Authorized for issue by:	
Tested By	Maker_Qi /Project Engineer
Approved By	Terry Hou /Reviewer



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3 General Information

3.1 General Description of E.U.T.

Dower aupply	Voltage Range: 9V~16V, Rating: 12V 0.6A
Power supply:	I Voltage Range: 9V∼16V. Rating: 12V 0.6A

3.2 Details of E.U.T.

2G

Operation Frequency:	GSM850:TX:824-849MHz,RX:869-894MHz PCS1900:TX:1850-1910MHz,RX:1930-1990MHz
Modulation Type:	GSM/GPRS:GMSK EDGE(MCS 0-4):GMSK/(MCS5-9):8PSK
Antenna Type:	External Antenna
Antenna Gain:	GSM850:-1dBi (Provided by the manufacturer) PCS1900:1.5dBi (Provided by the manufacturer)

3G

00	
	Band 2:TX:1850 -1910 MHz RX:1930 - 1990 MHz
Operation Frequency:	Band 4:TX:1710 -1755MHz RX:2110 - 2155MHz
	Band 5:TX:824 - 849MHz RX:869 - 894MHz
Modulation Type:	BPSK/QPSK/16QAM(16QAM uplink is not supported)/64QAM
Antenna Type:	External Antenna
	Band 2:1.5dBi (Provided by the manufacturer)
Antenna Gain:	Band 4:1.5dBi (Provided by the manufacturer)
	Band 5:-1dBi (Provided by the manufacturer)

4G

Operation Frequency:	Band 2:Uplink:1850 - 1910 MHz,Downlink:1930 - 1990 MHz Band 4:Uplink:1710 - 1755 MHz,Downlink:2110 - 2155 MHz Band 5:Uplink:824 - 849 MHz,Downlink:869 - 894 MHz Band 7:Uplink:2500-2570MHz,Downlink:2620-2690MHz		
Modulation Type:	QPSK/16QAM/64QAM(Downlink only)		
Antenna Type:	External Antenna		
	Band 2:1.5dBi (Provided by the manufacturer)		
Antenna Gain:	Band 4:1.5dBi (Provided by the manufacturer)		
Antenna Gain.	Band 5:-1dBi (Provided by the manufacturer)		
	Band 7:1.5dBi (Provided by the manufacturer)		



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3.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

- 1.SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc.) is provided by the applicant. (if applicable).
- 2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).
- 3. Sample source: sent by customer.

3.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

A2LA

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

• ISED

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.



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4 FCC Radiofrequency radiation exposure limits

According to §1.1310, The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)					
(i) Limits for Occupational/Controlled Exposure									
0.3-3.0	614	1.63	*(100)	≤6					
3.0-30	1842/f	4.89/f	*(900/f ²)	<6					
30-300	61.4	0.163	1.0	<6					
300-1,500			f/300	<6					
1,500- 100,000			5	<6					
	(ii) Limits for Gener	al Population/Uncontroll	ed Exposure						
0.3-1.34	614	1.63	*(100)	<30					
1.34-30	824/f	2.19/f	*(180/f ²)	<30					
30-300	27.5	0.073	0.2	<30					
300-1,500			f/1500	<30					
1,500- 100,000			1.0	<30					



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5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report FG932502A & FG291701

5.2 MPE Calculation

According to the formula S=P/4 π R², we can calculate S which is MPE. Note:

- 1) P (mW)
- 2) R = distance to the center of radiation of antenna (in centimeter)

For FCC

Test Mode	Max Average power (dBm)	Antenna Gain (dBi)	Max Tune up (dBm)	Max Tune up (W)	Operation Distance R(cm)	Power Density (mW/cm2)	Limit of Power Density S(mW/cm2)	Result
GSM850	23.97	-1	24	0.25	20	0.050	for FCC 0.55	Pass
GSM1900	20.97	1.5	21	0.23	20	0.025	1	Pass
WCDMA B2	22.97	1.5	23	0.20	20	0.040	1	Pass
WCDMA B4	23.04	1.5	23	0.20	20	0.040	1	Pass
WCDMA B5	22.96	-1	24	0.25	20	0.050	0.55	Pass
LTE B2	23.52	1.5	24	0.25	20	0.050	1	Pass
LTE B4	23.61	1.5	24	0.25	20	0.050	1	Pass
LTE B5	23.31	-1	24	0.25	20	0.050	0.549	Pass
LTE B7	23.28	1.5	24	0.25	20	0.050	1	Pass

Remark:

For GMS850&GSM1900

The averaged power calculated method are shown as below:

Averaged power=Maximum burst averaged power (1 Tx Slot)+(10lg(1/8))dB

Averaged power=Maximum burst averaged power (2 Tx Slot)+(10lg(2/8))dB

Averaged power=Maximum burst averaged power (3 Tx Slot)+(10lg(3/8))dB

Averaged power=Maximum burst averaged power (4 Tx Slot)+(10lg(4/8))dB

So the max Average power for GSM850 is 33-9.03=23.97dBm

The max Average power for GSM 1900 is 30-9.03=20.97dBm

-- End of the Report--