



RF EXPOSURE REPORT

For

Fujian LANDI Commercial Equipment Co.,Ltd.

Building 17, Section A, Software Park No. 89 Software Road, Gulou District, Fuzhou Municipality, Fujian
Province, China

FCC ID: 2AG6N-SNM927WF4MG

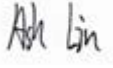
Report Type: Class II Permissive Change Report	Product Name: Smart Module
Report Number:	2507W73938E-RF-04
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Reviewed By:	Ash Lin 
Approved By:	Miles Chen 
Prepared By:	Bay Area Compliance Laboratories Corp. (Xiamen) Unit 102, No. 902 Meifeng South Road, Binhai West Avenue, Science and Technology Innovation Park, Torch High tech Zone Xiamen Tel: +86-592-3200111 www.baclcorp.com.cn

TABLE OF CONTENTS

REPORT REVISION HISTORY.....3

GENERAL INFORMATION.....4

 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST 4

 TEST FACILITY 5

MAXIMUM PERMISSIBLE EXPOSURE (MPE) 6

 APPLICABLE STANDARD 6

 EUT INFORMATION.....7

 CALCULATED DATA:.....7

REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2507W73938E-RF-04	R1V1	2025-09-10	Class II Permissive Change Report

GENERAL INFORMATION

Product Description for Equipment under Test

Product Name:	Smart Module
Tested Model:	SNM927
★Power Supply:	DC 3.8V
Operating Band/Frequency:	Classic BT: 2402-2480MHz BLE: 2402-2480MHz 2.4G WIFI: 2412-2462MHz 5G WIFI: Band1: 5180-5240 MHz (802.11a/n ht20/ac vht20) 5190-5230 MHz(802.11n ht40/ac vht40) 5210 MHz(802.11ac vht80) Band2: 5260-5320 MHz (802.11a/n ht20/ac vht20) 5270-5310 MHz(802.11n ht40/ac vht40) 5290 MHz(802.11ac vht80) Band3: 5500-5720 MHz (802.11a/n ht20/ac vht20) 5510-5710 MHz(802.11n ht40/ac vht40) 5530-5690MHz(802.11ac vht80) Band4: 5745-5825 MHz (802.11a/n ht20/ac vht20) 5755-5795 MHz(802.11n ht40/ac vht40) 5775 MHz(802.11ac vht80)
★Maximum Conducted Output Power:	Classic BT: 14.10dBm (Peak) BLE: 2.4dBm (Average) WIFI: 19.4dBm (Average) 5G WIFI: Band 1: 14.60dBm (Average) Band 2: 15.40dBm (Average) Band 3: 16.18dBm (Average) Band 4: 16.60dBm (Average)
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8DPSK BLE: GFSK WIFI: DSSS, OFDM
Antenna Type:	FPC Antenna
★Maximum Antenna Gain:	Classic BT/BLE/2.4G WIFI:4.55dBi 5G WIFI:4.19dBi@B1, 4.19dBi@B2, 5.43dBi@B3, 4.72dBi@B4
EUT Receive Status:	Good
Note: 1. The Maximum Antenna Gain was declared by manufacturer. 2. The power supply by user manual. 3. The EUT supplied by the applicant was received on 2025-08-14)	

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Xiamen) to collect test data is located on the Unit 102, No. 902 Meifeng South Road, Binhai West Avenue, Science and Technology Innovation Park, Torch High tech Zone Xiamen.

Bay Area Compliance Laboratories Corp. (Xiamen) Lab is accredited to ISO/IEC 17025 by A2LA (Certificate Number: 7134.01) and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No. : CN1384.

MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to FCC §1.1307(b)(1) & §2.1091, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Limits for Maximum Permissible Exposure (MPE)

(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 ²)	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 §1.1307(b)(1) & §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/cm²);

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);

EUT Information

Operation Modes	Operation Frequency (MHz)	★Max Conducted output power including Tune-up Tolerance (dBm)	★Maximum Antenna Gain (dBi)
2.4G WLAN	2412-2462	20.5	4.55
BLE	2402-2480	3.0	4.55
BT	2402-2480	14.0	4.55
5.2G Wi-Fi	5180-5240	16.0	4.19
5.3G Wi-Fi	5260-5320	16.0	4.19
5.5G Wi-Fi	5500-5720	17.0	5.43
5.8G Wi-Fi	5745-5825	18.0	4.72

Note:
The above parameters were provided by the manufacturer.
Please refer to the FCC ID: 2APJ4-SNM927 for power about the certified WLAN & Bluetooth module.

Calculated Data:

Mode	Frequency (MHz)	★Antenna Gain		★Tune-up Output Power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
2.4G Wi-Fi	2412-2462	4.55	2.85	20.5	112.20	20	0.0636	1
BLE	2402-2480	4.55	2.85	3	2.00	20	0.0011	1
BT	2402-2480	4.55	2.85	14	25.12	20	0.0142	1
5.2G Wi-Fi	5180-5240	4.19	2.62	16	39.81	20	0.0207	1
5.3G Wi-Fi	5260-5320	4.19	2.62	16	39.81	20	0.0207	1
5.5G Wi-Fi	5500-5720	5.43	3.49	17	50.12	20	0.0348	1
5.8G Wi-Fi	5745-5825	4.72	2.96	18	63.10	20	0.0372	1

Note: 1. The Tune-up output power and Antenna Gain was declared by the Manufacturer.
2. BT and Wi-Fi use the same antenna and cannot transmit simultaneously.

Result: The device meets MPE at distance 20cm.

Declarations

1. Bay Area Compliance Laboratories Corp. (Xiamen) is not responsible for authenticity of any information provided by the applicant. Information from the applicant that may affect test results are marked with an asterisk “★”.
2. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.
3. Unless required by the rule provided by the applicant or product regulations, then decision rule in this report did not consider the uncertainty.
4. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95% confidence interval.
5. This report cannot be reproduced except in full, without prior written approval of Bay Area Compliance Laboratories Corp. (Xiamen).
6. This report is valid only with a valid digital signature. The digital signature may be available only under the adobe software above version 7.0.

******* END OF REPORT *******