

MAXIMUM PERMISSIBLE EXPOSURE EVALUATION REPORT

Applicant: Shenzhen Xinguodu Technology Co., Ltd.

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Product Name: POS terminal

FCC ID: XDQUN10-01

Standard(s): 47 CFR §1.1310, 47 CFR §2.1091,
47 CFR §15.247(i), 47 CFR §15.407(f)

Report Number: 2602S53473E-RF-00H

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The above device has been tested and found compliant with the requirement of the relevant standards by Bay Area Compliance Laboratories Corp. (Dongguan).

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2602S53473E-RF-00H	Original Report	2026/7/17

1. GENERAL INFORMATION

1.1 General Description Of Equipment under Test

EUT Name:	POS terminal
Trade Name:	NEXGO
EUT Model:	UN10
Rated Input Voltage:	5Vdc from adapter or 7-48Vdc from MDB
EUT Received Date:	2026/4/23
EUT Received Status:	Good

2. RF EXPOSURE EVALUATION (MPE)

2.1 RF Exposure Evaluation

2.1.1 Applicable Standard

According to subpart 15.247(i), 15.407(f) and 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 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 §1.1310 and §2.1091 RF exposure is calculated.

2.1.2 Calculation formula

Prediction of power density at the distance of the applicable MPE limit

$S = PG/4\pi R^2$ = 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);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

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)			
BT	2402-2480	2.18	1.65	7.0	5.01	25.00	0.001	1.0
BLE	2402-2480	2.18	1.65	6.5	4.47	25.00	0.001	1.0
2.4G Wifi	2412-2462	2.18	1.65	23.5	223.87	25.00	0.047	1.0
5G Wifi	5150-5250	1.43	1.39	15.5	35.48	25.00	0.006	1.0
	5250-5350	1.32	1.36	16.0	39.81	25.00	0.007	1.0
	5470-5725	2.26	1.68	16.0	39.81	25.00	0.009	1.0
	5725-5850	1.33	1.36	12.5	17.78	25.00	0.003	1.0
GSM 850	824-849	1.6	1.45	34.0	2511.89	25.00	0.463	0.55
PCS 1900	1850-1910	2.75	1.88	31.0	1258.93	25.00	0.302	1.0
WCDMA B2	1850-1910	2.75	1.88	22.5	177.83	25.00	0.043	1.0
WCDMA B4	1710-1755	2.2	1.66	24.0	251.19	25.00	0.053	1.0
WCDMA B5	824-849	1.6	1.45	24.5	281.84	25.00	0.052	0.55
LTE B2	1850-1910	2.75	1.88	24.0	251.19	25.00	0.060	1.0
LTE B4	1710-1755	2.2	1.66	23.0	199.53	25.00	0.042	1.0
LTE B5	824-849	1.6	1.45	24.5	281.84	25.00	0.052	0.55
LTE B7	2500-2570	2.43	1.75	23.5	223.87	25.00	0.050	1.0
LTE B38	2570-2620	1.9	1.55	23.5	223.87	25.00	0.044	1.0
NFC	13.56	/	/	-12.04	0.06	25.00	<<0.001	0.98
Note: NFC field strength is 83.16dBμV/m @ 3m = -12.04 dBm(0.06mW) EIRP. That equal to antenna gain is 0dBi and used the EIRP value as conducted power.								

Note:

The Antenna Gain and Conducted output power including Tune-up Tolerance provided by manufacturer.

BT/BLE/2.4G Wifi /5G Wifi can't transmit simultaneously, but BT,BLE,2.4G Wifi or 5G Wifi can transmit simultaneously with WWAN and NFC:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

$$= S_{2.4G\ Wifi} / S_{limit-2.4G\ Wifi} + S_{WWAN} / S_{limit-WWAN} + S_{NFC} / S_{limit-NFC}$$

$$= 0.047/1.0 + 0.463/0.55 + 0.001/0.98$$

$$= 0.89$$

$$< 1$$

Result: The device meet FCC MPE at 25 cm distance

EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2602S53473E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2602S53473E-RF-INP EUT INTERNAL PHOTOGRAPHS.

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