

MAXIMUM PERMISSIBLE EXPOSURE EVALUATION REPORT

Applicant: Fujian Newland Payment Technology Co.,Ltd.

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Product Name: Unattended Terminal

FCC ID: 2AM6U-NAU200

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

Report Number: 2502V10500E-RF-00H

Report Date: 2025/11/04

The above device has been tested and found compliant with the requirement of the relative 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	2502V10500E-RF-00H	Original Report	2025/11/04

1. GENERAL INFORMATION

1.1 General Description Of Equipment under Test

EUT Name:	Unattended Terminal
EUT Model:	U200
Rated Input Voltage:	7V-48Vdc 2.0A supplied by external power or 12V dc2.0A supply by adapter
EUT Received Date:	2025/7/8
EUT Received Status:	Good
Note: The device have two Configurations, Configuration 1# and Configuration 2#. The difference of them is Configuration 1# with a TOF sensor but Configuration 2# without. Please refer to the declaration letter for more detail, which was provided by manufacturer.	

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	0.6	1.15	10.0	10.00	20.00	0.0023	1.0
BLE	2402-2480	0.6	1.15	1.0	1.26	20.00	0.0003	1.0
2.4G Wifi	2412-2462	0.6	1.15	19.5	89.13	20.00	0.0204	1.0
5G Wifi	5150-5250	-0.28	0.94	18.5	70.79	20.00	0.0132	1.0
	5250-5350	1.19	1.32	18.5	70.79	20.00	0.0185	1.0
	5470-5725	1.2	1.32	18.5	70.79	20.00	0.0186	1.0
	5725-5850	1.2	1.32	18.5	70.79	20.00	0.0186	1.0
LTE Band 2	1850-1910	2.73	1.87	25	316.23	20.00	0.1180	1.0
LTE Band 4	1710-1755	2.3	1.70	25	316.23	20.00	0.1069	1.0
LTE Band 5	824-849	2.79	1.90	25	316.23	20.00	0.1197	0.5
LTE Band 7	2500-2570	0.3	1.07	25	316.23	20.00	0.0674	1.0
LTE Band 12	699-716	-0.37	0.92	25	316.23	20.00	0.0578	0.5
LTE Band 13	777-787	1.82	1.52	25	316.23	20.00	0.0957	0.5
LTE Band 14	788-798	2.14	1.64	25	316.23	20.00	0.1030	0.5
LTE Band 17	704-716	-0.37	0.92	25	316.23	20.00	0.0578	0.5
LTE Band 25	1850-1915	2.73	1.87	25	316.23	20.00	0.1180	1.0
LTE Band 26	814-824	2.41	1.74	25	316.23	20.00	0.1096	0.5
LTE Band 26	824-849	2.79	1.90	25	316.23	20.00	0.1197	0.5
LTE Band 41	2496-2690	2.99	1.99	25	316.23	20.00	0.1253	1.0
LTE Band 66	1710-1780	2.3	1.70	25	316.23	20.00	0.1069	1.0
LTE Band 71	663-698	-0.91	0.81	25	316.23	20.00	0.0510	0.4
NFC	13.56	/	/	-22.94	0.01	20.00	<<0.0001	0.98

Note:
NFC field strength is 72.26dBμV/m @ 3m = -22.94 dBm(0.01mW) 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.

For Simultaneous transmission:

Bluetooth, Wifi and WWAN can transmit simultaneously with NFC:

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

$$= S_{\text{Bluetooth}} / S_{\text{limit-Bluetooth}} + S_{\text{Wifi}} / S_{\text{limit-Wifi}} + S_{\text{WWAN}} / S_{\text{limit-WWAN}} + S_{\text{NFC}} / S_{\text{limit-NFC}}$$

$$= 0.0023/1.0 + 0.0204/1.0 + 0.1197/0.5 + 0.0001/0.98$$

$$= 0.26$$

$$< 1$$

Result: The device meet FCC MPE at 20 cm distance

EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2502V10500E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2502V10500E-RF-INP EUT INTERNAL PHOTOGRAPHS.

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