

RF EXPOSURE REPORT

Product: Module

Model Name: LE910S1-ELG

FCC ID: RI7LE910S1ELG

Applicant: Telit Communications SpA

Address: Viale Stazione di Prosecco 5/b

Manufacturer: Telit Communications SpA.

Address: Viale Stazione di Prosecco 5/b

Prepared by: BV 7Layers Communications Technology (Shenzhen) Co. Ltd

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Report No.: W7L-P21110027SA01

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P21110027SA01	Original release	Dec. 08, 2021



Test Report No.: W7L-P21100003SA01

1 CERTIFICATION

PRODUCT: Integrated Smart Terminal
BRAND NAME: PAX
MODEL NAME: E700
APPLICANT: PAX Technology Limited
TESTED: Sep. 29, 2021 ~ Oct. 27, 2021
TEST SAMPLE: Production Unit
STANDARDS: **FCC Part 2 (Section 2.1091)**
FCC OET Bulletin 65, Supplement C (01-01)
KDB 447498 D01 General RF Exposure Guidance v06
IEEE C95.1
FCC Designation
No. CN1171



Test Report No.: W7L-P21100003SA01

The above equipment has been tested by **BV 7Layers Communications Technology (Shenzhen) Co. Ltd** and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Simon

PREPARED BY : _____ , DATE: Dec. 08, 2021
(Simon Wang / Engineer)

Luke Lu

APPROVED BY : _____ , DATE: Dec. 08, 2021
(Luke Lu / Manager)

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Module	
MODEL NAME	LE910S1-ELG	
NOMINAL VOLTAGE	12Vdc(adapter or host equipment) 3.8Vdc (Li-ion, battery)	
OPERATING TEMPERATURE RANGE	-40-85 °C	
MODULATION TYPE	GPRS/EDGE	GMSK, 8PSK
	LTE	QPSK, 16QAM
OPERATING FREQUENCY	GPRS/EDGE	824.2MHz ~ 848.8MHz, 1850.2MHz ~ 1909.8MHz
	LTE Band 2	1850.7MHz ~ 1900.0MHz
	LTE Band 4	1710.7MH ~ 1745MHz
	LTE Band 5	824.7MHz ~ 844MHz
	LTE Band 7	2502.5MHz ~ 2560MHz
HW VERSION	1.0	
SW VERSION	M0K.000001	
ANTENNA GAIN	External Antenna with 2.14dBi gain for GPRS850/ GPRS1900/LTE B2/B4/B5/B7	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	N/A	

NOTE:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

3 RF EXPOSURE

3.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm ²)	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	F/1500	30
1500-100,000	1.0	30

F = Frequency in MHz

3.2 MPE CALCULATION FORMULA

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.14

R = distance between observation point and center of the radiator in cm

3.3 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

3.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

Worst case as below:

GPRS/EDGE

Band	Frequency (MHz)	Antenna Gain (dBi)	Tune-up Conducted Power (dBm)	Tune-up Conducted AV Power (dBm)	Tune-up Conducted Power (mW)	Power Density (mW/cm ²)	limit (mW/cm ²)	PASS / FAIL
GPRS	824.2	2.14	34	24.97	314.05	0.102	0.55	PASS
EDGE	1850.2	2.14	31.5	22.47	176.60	0.058	1.0	PASS

LTE

Band	Frequency (MHz)	Antenna Gain (dBi)	Tune-up Conducted Power (dBm)	Tune-up Conducted Power (mW)	Power Density (mW/cm ²)	limit (mW/cm ²)	PASS / FAIL
LTE B2	1850.7	2.14	24.50	281.84	0.092	1.0	PASS
LTE B4	1710.7	2.14	24.50	281.84	0.092	1.0	PASS
LTE B5	824.7	2.14	24.50	281.84	0.092	0.55	PASS
LTE B7	2502.5	2.14	24.50	281.84	0.092	1.0	PASS

3.5 CONCLUSION OF SIMULTANEOUS TRANSMITTER

BT,WLAN and WWAN plug-in device can transmit simultaneously, the formula of calculated the MPE is:

$$CPD1/LPD1+CPD2/LPD2+.....etc. < 1$$

CPD = Calculation power density

LPD = Limit of power density

Therefore the worst-case situation is $0.102/0.55+0.092/0.55=0.353$, which is less than "1", This confirmed that the device comply with FCC 1.1310 MPE limit.

--END--