



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240300037403

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1 Cover Page

RF Exposure Evaluation Report

Application No.:	KSCR2403000374AT
FCC ID:	2BFRXELT622PI
Applicant:	EasyCell Co., Ltd
Address of Applicant:	#1115, Ace Pyeong chon Tower, 361 Simin-daero, Dongan-gu, Anyang-si, Gyeonggi-do Korea
Manufacturer:	EasyCell Co., Ltd
Address of Manufacturer:	#1115, Ace Pyeong chon Tower, 361 Simin-daero, Dongan-gu, Anyang-si, Gyeonggi-do Korea
Factory:	EasyCell Co., Ltd
Address of Factory:	#1115, Ace Pyeong chon Tower, 361 Simin-daero, Dongan-gu, Anyang-si, Gyeonggi-do Korea
Equipment Under Test (EUT):	
EUT Name:	CBRS CAT-A Indoor CBSD
Model No.:	ELT-622PI
Standard(s) :	FCC Rules 47 CFR §2.1091 KDB 447498 D01 interim General RF Exposure Guidance v06
Date of Receipt:	2024-03-08
Date of Test:	2024-04-03 to 2024-04-07
Date of Issue:	2024-04-08

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

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<i>Revision Record</i>			
<i>Version</i>	<i>Description</i>	<i>Date</i>	<i>Remark</i>
00	Original	2024-04-08	/

Authorized for issue by:			
Tested By	<i>Damon Zhou</i>		
	<u>Damon_Zhou/Project Engineer</u>		
Approved By	<i>Terry Hou</i>		
	<u>Terry Hou /Reviewer</u>		



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3 General Information

3.1 General Description of E.U.T.

Power supply:	AC 120V/60Hz by adapter Adapter : Model No: SW42-12003500-w Input: AC 100~240V 50/60Hz Output: DC 12V/3.5A
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3.2 Technical Specifications

Product Name:	CBRS CAT-A Indoor CBSD
Model No.:	ELT-622PI
Antenna Type:	Internal
Antenna Gain:	Antenna 1&2:7dBi (Provided by manufacturer)
Power Supply:	AC 120V/60Hz by adapter Adapter: Model No: SW42-12003500-2 Input: AC 100~240V 50/60Hz Output: DC 12V/3.5A
CBSD Class:	Category A CBSD
Modulation Type:	QPSK\16QAM\64QAM
Frequency Band:	LTE Band48
Frequency Range:	3550MHz to 3700MHz
Hardware Version:	V0.2
Software Version:	Version 6.4.0 Version Suffix : g50-lt621ct-9738 Build Date : Wed Mar 27 14:27:31 KST 2024
Extreme Temp. Tolerance:	-30°C to +50°C
Antenna Delivery:	2*2 MIMO

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. internal working 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.

4 Test Standards and Limits

4.1 FCC Radiofrequency radiation exposure limits:

According to §1.1310, the limit for general population/uncontrolled exposures

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
Limits for General Population/Uncontrolled 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
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report KSCR240300037402

5.2 MPE Calculation

According to the formula $S = P / 4\pi R^2$, we can calculate S which is MPE.

Note:

- 1) P (mW)
- 2) R = distance to the center of radiation of antenna (in centimeter)
- 3) MPE limit = 1mW/cm²

Test Mode	Frequency Band (MHz)	Max Tune up EIRP (dBm)	Operation Distance R(cm)	Power Density (mW/cm ²)	Limit of Power Density S(mW/cm ²)	Result
Band48	3550~3700	31	20	0.25	1	Pass

According to the KDB447498 section 7.2 determine the device is exclusion from SAR test.

--End of the Report--