

FCC TEST REPORT

Report No.....: AB26080355FW02

FCC ID.....: **2ACZO-USR-EG228**

Applicant.....: Jinan USR IOT Technology Limited

Address.....: Floor F1 & Part of Floor F2, Building No.9, Diya Shuang Chuang Industrial Zone, No.2566, Century Main Road, Gaoxin District, Jinan, Shandong

Manufacturer.....: Jinan USR IOT Technology Limited

Address.....: Floor F1 & Part of Floor F2, Building No.9, Diya Shuang Chuang Industrial Zone, No.2566, Century Main Road, Gaoxin District, Jinan, Shandong

Product Name.....: Industrial Computer

Trade Mark.....: 

Test Model.....: USR-EG228

Additional Model(s).....: See section 1.1

Standard.....: FCC Part 2 (Section 2.1091)
KDB 447498 D01
IEEE C95.1

Date of Receipt.....: 2026.08.20

Date of Issue.....: 2026.09.02

Test Result.....: Pass

Compiled by:
(Printed Name + Signature)

Huaijie Li

Huaijie Li

Supervised by:
(Printed Name + Signature)

David Huang

David Huang

Approved by:
(Printed Name + Signature)

Jay Liu

Jay Liu

Testing Laboratory Name.....: Aibo Standard Technology (Shenzhen) Co., Ltd.

Address.....: 101, Building B, Tuori New Energy Industrial Park, High-tech Park, Tianliao Community, Yutang Street, Guangming District, Shenzhen City, Guangdong Province, China

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FCC TEST REPORT

EUT.....	: Industrial Computer
Test Model.....	: USR-EG228
Applicant.....	: Jinan USR IOT Technology Limited
Address.....	: Floor F1 & Part of Floor F2, Building No.9, Diya Shuang Chuang Industrial Zone, No.2566, Century Main Road, Gaoxin District,Jinan, Shandong
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Address.....	: Floor F1 & Part of Floor F2, Building No.9, Diya Shuang Chuang Industrial Zone, No.2566, Century Main Road, Gaoxin District,Jinan, Shandong

Test Result	Positive
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The test report merely corresponds to the test sample.

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Version No.	Issue Date	Description
01	2026.09.02	Initial Issue

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1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF EUT

Product Name:	Industrial Computer	
Trade Mark:		
Test Model:	USR-EG228	
Additional Model(s):	USR-EG228-GL, USR-EG228-EW, USR-EG228-C1, USR-EG228-G4, USR-EG218, USR-EG528K, USR-EG528J, USR-EG628S, USR-EV208, USR-EV808, USR-EV908, USR-EG328, USR-EG1000, USR-EG118	
Model Difference:	All models are the same circuit and RF module, except the model name.	
Hardware Version:	V1.0.3	
Software Version:	V2.0.1	
Power Supply:	DC 9V-36V	
EUT Supports Function: (Provided by the customer)	E-UTRA Bands:	LTE Band 2/4/5/7/8/12/13/18/19/25/26/38/41/66
Radio Specification Subject to this Report		
Support Networks:	Band 2/4/5/7/8/12/13/18/19/25/26/38/41/66	
Frequency Range:	Band 2	1850MHz–1910MHz
	Band 4	1710MHz–1755MHz
	Band 5	824MHz–849MHz
	Band 7	2500MHz–2570MHz
	Band 8	896MHz–901MHz
	Band 12	699MHz–716MHz
	Band 13	777MHz–787MHz
	Band 18-part 22	824MHz–830MHz
	Band 18-part 90	815MHz–824MHz
	Band 19	830MHz–845MHz
	Band 25	1850MHz–1915MHz
	Band 26-part 22	824MHz–849MHz
	Band 26-part 90	814MHz–824MHz
	Band 38	2570MHz–2620MHz
	Band 41	2496MHz–2690MHz
	Band 66	1710MHz–1780MHz
Modulation Type:	QPSK, 16QAM	
Channel Bandwidth:	Band 2	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	Band 4	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	Band 5	1.4MHz, 3MHz, 5MHz, 10MHz
	Band 7	5MHz, 10MHz, 15MHz, 20MHz
	Band 8	1.4MHz, 3MHz, 5MHz
	Band 12	1.4MHz, 3MHz, 5MHz, 10MHz
	Band 13	5MHz, 10MHz
	Band 18	5MHz
	Band 19	5MHz, 10MHz, 15MHz

	Band 25	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz
	Band 26	1.4MHz, 3MHz, 5MHz, 10MHz
	Band 38	5MHz, 10MHz, 15MHz, 20MHz
	Band 41	5MHz, 10MHz, 15MHz, 20MHz
	Band 66	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
Antenna Type:	External Antenna 1.1dBi for band 2; 1.1dBi for band 4; 1.01dBi for band 5; 1.26dBi for band 7; 1.01dBi for band 8; 1.01dBi for band 12; 1.01dBi for band 13; 1.01dBi for band 18; 1.01dBi for band 19; 1.1dBi for band 25; 1.01dBi for band 26; 1.26dBi for band 38; 1.26dBi for band 41; 1.1dBi for band 66;	

1.2. DESCRIPTION OF TEST FACILITY

Test Lab: Aibo Standard Technology (Shenzhen) Co., Ltd.

Address: 101, Building B, Tuori New Energy Industrial Park, High-tech Park, Tianliao Community, Yutang Street, Guangming District, Shenzhen City, Guangdong Province, China

Tel.: +86 755 85250797

E-mail: aibo@aibonorm.com

Website: www.aibonorm.com

The test facility is recognized, certified, or accredited by the following organizations:

A2LA-Lab Certificate No.: 7514.01

Aibo Standard Technology (Shenzhen) Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC Accredited Lab.

Designation Number: CN1411

Test Firm Registration Number: 567066

ISED Wireless Device Testing Laboratories

Company Number: 33924

CAB identifier: CN0185

2. RF EXPOSURE EVALUATION

2.1 Limit

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) 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

f = frequency in MHz

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm², P_{out} = output power to antenna in mW;

G = gain of antenna in linear scale, $\pi = 3.1416$;

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

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

2.2 Evaluation Result

The tuned conducted Average Power (declared by client)

Mode	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
LTE Band 2	22	+2	20	24
LTE Band 4	22	+2	20	24
LTE Band 5	23	+2	21	25
LTE Band 7	22	+2	20	24
LTE Band 8	23	+2	21	25
LTE Band 12	23	+2	21	25
LTE Band 13	22	+2	20	24
LTE Band 18	22	+2	20	24
LTE Band 19	23	+2	21	25
LTE Band 25	22	+2	20	24
LTE Band 26	22	+2	20	24
LTE Band 38	22	+2	20	24
LTE Band 41	22	+2	20	24
LTE Band 66	23	+2	21	25

Mode	Total Power (dBm)	Antenna Gain	Max.EIRP (dBm)	Max.EIRP (mW)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
LTE Band 2	24	1.1	25.1	323.594	0.064377	1.0	PASS
LTE Band 4	24	1.1	25.1	323.594	0.064377	1.0	PASS
LTE Band 5	25	1.01	23.86	243.220	0.048387	0.549	PASS
LTE Band 7	24	1.26	25.26	335.738	0.066793	1.0	PASS
LTE Band 8	25	1.01	23.86	243.220	0.048387	0.586	PASS
LTE Band 12	25	1.01	23.86	243.220	0.048387	0.466	PASS
LTE Band 13	24	1.01	22.86	193.197	0.038435	0.518	PASS
LTE Band 18	24	1.01	22.86	193.197	0.038435	0.543	PASS
LTE Band 19	25	1.01	23.86	243.220	0.048387	0.553	PASS
LTE Band 25	24	1.1	25.1	323.594	0.064377	1.0	PASS

LTE Band 26	24	1.01	22.86	193.197	0.038435	0.542	PASS
LTE Band 38	24	1.26	25.26	335.738	0.066793	1.0	PASS
LTE Band 41	24	1.26	25.26	335.738	0.066793	1.0	PASS
LTE Band 66	25	1.1	26.1	407.380	0.081046	1.0	PASS

So a SAR test is not required

*****THE END*****