

Report No.: EED32Q81423101 Page 1 of 25

TEST REPORT

4G Dongle **Product**

N/A Trade mark

See section 5.2 Model/Type reference

N/A **Serial Number**

Report Number EED32Q81423101 FCC ID 2BL6B-U255AUX

Date of Issue Dec. 02, 2024 47 CFR Part 2 **Test Standards**

47 CFR Part 27

Test result PASS

Prepared for:

Huizhou Skyline Intelligent Technology Co., Ltd. The 3rd and 4th floor, Unit 2, E2-2 Factory Building, Group Yileng Manufacturing Industrial Park, No. 1, Xingyuan South Road, Zhongkai High-tech Zone, Huizhou, China and Korea Huizhou Industrial Park; The 4th floor, Unit 1, E2-2 factory building

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

> TEL: +86-755-3368 3668 FAX: +86-755-3368 3385

Compiled by:

Report Seal

Zhenxia Wen

Reviewed by:

firazer. Li Frazer Li

Zhenxia Wen

Date of Issue:

Dec. 02, 2024

aron Ma Aaron Ma

Check No.: 7240110924



















Page 2 of 25

Version

Version No.	Date	16	7	
00	Dec. 02, 2024		Original	
	(5)	(67)		6,













































































2 Test Summary

Test Item	Test Requirement	Test method	Result
FCC Part 27			
(LTE Band 7)		-81	
Conducted output power	Part 2.1046(a) /Part 27.50(d)	TIA-603-E-2016&KDB 971168 D01v03r01	PASS
Effective Radiated Power of Transmitter(EIRP)	Part 2.1046(a) / Part 27.50(d)	TIA-603-E-2016&KDB 971168 D01v03r01	PASS
peak-to-average ratio	Part 27.50(d)	KDB 971168 D01v03r01	PASS
99% &26dBOccupied Bandwidth	Part 2.1049(h)	Part 27.53(h) &KDB 971168 D01v03r01	PASS
Band Edge at antenna terminals	Part 2.1051/ Part 27.53(h)	Part 27.53(h) &KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	Part 2.1051/ Part 27.53(h)	TIA-603-E-2016&KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	Part 2.1053/ Part 27.53(h)	TIA-603-E-2016&KDB 971168 D01v03r01	PASS
Frequency stability	Part 2.1055/Part 27.54	TIA-603-E-2016&KDB 971168 D01v03r01	PASS

Remark:

Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

In this whole report Tx (or tx) means Transmitter. Tx:

In this whole report Rx (or rx) means Receiver. Rx:

RF: In this whole report RF means Radiated Frequency.

CH: In this whole report CH means channel. Volt: In this whole report Volt means Voltage.

Temp: In this whole report Temp means Temperature.

Humid: In this whole report Humid means humidity.

Press: In this whole report Press means Pressure.

N/A: In this whole report not application

Model No.: EC25-AUX, U266G, U355G, U255EC, U255AUX, U911NAX, U255AFX, U255EUX, U255J, 255E, U255EU, U255V, U255A, U255AFXD, U255MX, U255AU, U255AUT, U255KL, U911E, U911EX, U911NAXD, U911NA, U911VX, U911AUX

Only the model EC25-AUX was tested. Their electrical circuit design, layout, components used and internal wiring are identical. Only the color of the appearance is different.













Page 4 of 25

3 Content

100				
2 TEST SUMMARY		•••••	•••••	3
4.1.1 For Conducted 4.1.2 For Radiated E 4.2 TEST ENVIRONMENT.	test setup missions test setup			
	ON			
5.2 GENERAL DESCRIPTION 5.3 DESCRIPTION OF SUF 5.4 TEST LOCATION 5.5 DEVIATION FROM STA 5.6 ABNORMALITIES FROM 5.7 OTHER INFORMATION	ON OF EUT PPORT UNITS ANDARDS M STANDARD CONDITIONS REQUESTED BY THE CUSTOMER ERTAINTY (95% CONFIDENCE LEVELS, K			5 5 5
	QUIREMENTS SPECIFICATION			
APPENDIX A) FIELD STR	ENGTH OF SPURIOUS RADIATION	N		12
	T SETUP			
PHOTOGRAPHS OF EUT	CONSTRUCTIONAL DETAILS			17











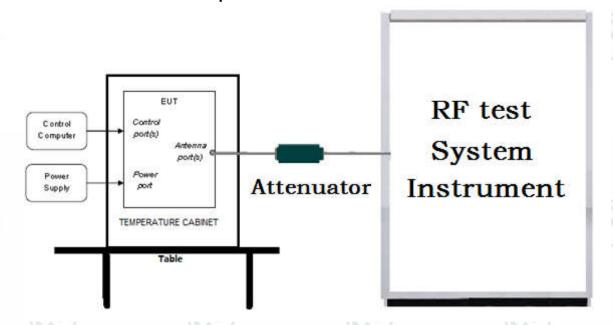


Report No.: EED32Q81423101 Page 5 of 25

4 Test Requirement

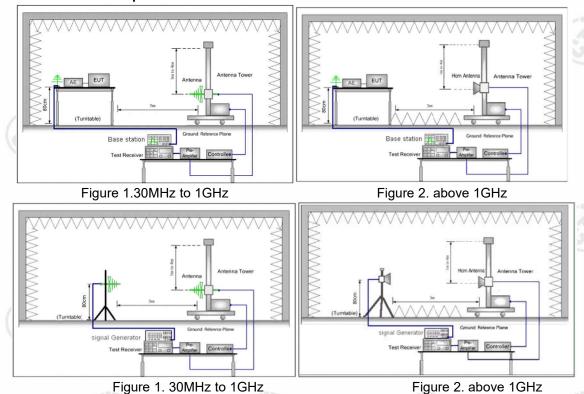
4.1 Test setup

4.1.1 For Conducted test setup



4.1.2 For Radiated Emissions test setup

Radiated Emissions setup:





Report No.: EED32Q81423101 Page 6 of 25

4.2 Test Environment

Operating Environm	(0.)		
Temperature:	24.0 °C		
Humidity:	54 % RH		
Atmospheric Pressure:	1010mbar	Ting .	

5 General Information

5.1 Client Information

Applicant:	Huizhou Skyline Intelligent Technology Co., Ltd.		
Address of Applicant:	The 3rd and 4th floor, Unit 2, E2-2 Factory Building, Group Yileng Manufacturing Industrial Park, No. 1, Xingyuan South Road, Zhongkai High-tech Zone, Huizhou, China and Korea Huizhou Industrial Park; The 4th floor, Unit 1, E2-2 factory building		
Manufacturer:	Huizhou Skyline Intelligent Technology Co., Ltd.		
Address of Manufacturer:	The 3rd and 4th floor, Unit 2, E2-2 Factory Building, Group Yileng Manufacturing Industrial Park, No. 1, Xingyuan South Road, Zhongkai High-tech Zone, Huizhou, China and Korea Huizhou Industrial Park; The 4th floor, Unit 1, E2-2 factory building		
Factory:	Huizhou Skyline Intelligent Technology Co., Ltd.		
Address of Factory:	The 3rd and 4th floor, Unit 2, E2-2 Factory Building, Group Yileng Manufacturing Industrial Park, No. 1, Xingyuan South Road, Zhongkai High-tech Zone, Huizhou, China and Korea Huizhou Industrial Park; The 4th floor, Unit 1, E2-2 factory building		

5.2 General Description of EUT

Product Name:	4G Dongle			
Model No.:	EC25-AUX, U266G, U355G, U255EC, U255AUX, U911NAX, U255AFX,			
	U255EUX, U255J, 255E, U255EU, U255V, U255A, U255AFXD, U255MX, 255AU, U255AUT, U255KL, U911E, U911EX, U911NAXD, U911NA,			
	911VX, U911AUX			
Test Model No.:	EC25-AUX			
Trade Mark:	N/A			
Product Type:	☐ Mobile ☐ Portable ☒ Fixed Location			
Frequency Band:	FDD band 7:UL:2500-2570MHz,DL:2620-2690MHz			
Modulation Type:	QPSK,16QAM,64QAM			
Antenna Type:	Internal Antenna			
Antenna Gain:	-0.91 dBi,			
Power Supply:	Adapter: DC 5V			
Test Voltage:	DC 5V			
Sample Received Date:	Oct. 17, 2024			
Sample tested Date:	Oct. 17, 2024 to Oct. 24, 2024			













Report No.: EED32Q81423101 Page 7 of 25

5.3 Description of Support Units

The EUT has been tested independently.

5.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164

5.5 Deviation from Standards

None.

5.6 Abnormalities from Standard Conditions

None.

5.7 Other Information Requested by the Customer

None.

5.8 Measurement Uncertainty (95% confidence levels, k=2)

7.9 x 10 ⁻⁸ 0.46dB (30MHz-1GHz) 0.55dB (1GHz-18GHz) 4.3dB (30MHz-1GHz)
0.55dB (1GHz-18GHz) 4.3dB (30MHz-1GHz)
4.3dB (30MHz-1GHz)
,
4.5dB (1GHz-12.75GHz)
3.5dB (9kHz to 150kHz)
3.1dB (150kHz to 30MHz)
0.64°C
3.8%
0.026%





Report No.: EED32Q81423101 Page 8 of 25

6 Equipment List

		2G/3G/4G Communicati	ion RF test system		
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd- yyyy)	Cal. Due date (mm-dd-yyyy)
Spectrum Analyzer	Agilent	E4440A	MY46185649	10-23-2023 10-22-2024	10-22-2024 10-21-2025
Signal Generator	Keysight	E8257D	MY53401106	12-14-2023	12-13-2024
Signal Generator	Agilent	E4438C	MY45095744	12-11-2023	12-10-2024
Communication test set	R&S	CMW500	120765	12-14-2023	12-13-2024
DC Power	Keysight	E3642A	MY56376035	12-11-2023	12-10-2024
RF control unit	JS Tonscend	JS0806-1	158060004	12-14-2023	12-13-2024
DC power Box	JS Tonscend	JS0806-4	158060007	(
High-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	12-11-2023	12-10-2024
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	05-29-2024	05-28-2025
Automatic test software	JS Tonscend	JS1120	V2.6.9.0518	- 0	<u> </u>
Band rejection filter	Sinoscite	FL5CX01CA09CL12- 0395-001	<u>.</u>	@) <u>-</u>
Band rejection filter	Sinoscite	FL5CX01CA08CL12- 0393-001	- (<u> </u>	761
Band rejection filter	Sinoscite	FL5CX02CA04CL12- 0396-002			
Band rejection filter	Sinoscite	FL5CX02CA03CL12- 0394-001		6	<u> </u>
Band rejection filter	Sinoscite	FL5CX02CA03CL12- 0397-002			
High-pass filter	Sinoscite	FL3CX03WG18NM12- 0398-002	(

Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com



Page 9 of 25

31	M Semi-anechoic			Cal. date	Cal. Due date
Equipment	Manufacturer	Model No.	Serial Number	(mm-dd-yyyy)	(mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3		05/22/2022	05/21/2025
Receiver	R&S	ESCI7	100938- 003	09/07/2024	09/06/2025
Spectrum Analyzer	R&S	FSV40	101200	07/18/2024	07/17/2025
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/22/2022	05/21/2025
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04/16/2024	04/15/2025
Microwave Preamplifier	Tonscend	EMC051845SE	980380	12/14/2023	12/13/2024
Horn Antenna	A.H.SYSTEMS	SAS-574	374	07/02/2023	07/01/2026
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D- 1869	04/16/2024	04/15/2025
Preamplifier	Agilent	11909A	12-1	03/22/2024	03/21/2025
Preamplifier	CD	PAP-1840-60	6041.6042	06/19/2024	06/18/2025
Test software	Fara	EZ-EMC	EMEC- 3A1-Pre	-	
Cable line	Fulai(7M)	SF106	5219/6A	(2	- (i)
Cable line	Fulai(6M)	SF106	5220/6A		
Cable line	Fulai(3M)	SF106	5216/6A		(3
Cable line	Fulai(3M)	SF106	5217/6A		6













Report No.: EED32Q81423101 Page 10 of 25

		3M full-anechoi	c Chamber		
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Fully Anechoic Chamber	TDK	FAC-3		01-09-2024	01-08-2027
Receiver	Keysight	N9038A	MY57290136	01-09-2024	01-08-2025
Spectrum Analyzer	Keysight	N9020B	MY57111112	01-29-2024	01-28-2025
Spectrum Analyzer	Keysight	N9030B	MY57140871	01-23-2024	01-22-2025
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2024	04-27-2025
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-16-2024	04-15-2025
Horn Antenna	ETS-LINDGREN	3117	57407	07-03-2024	07-02-2025
Preamplifier	EMCI	EMC001330	980563	03-08-2024	03-07-2025
Preamplifier	Tonscend	TAP-011858	AP21B806112	07-18-2024	07-17-2025
Preamplifier	Tonscend	EMC051845SE	980380	12-14-2023	12-13-2024
Communication test set	R&S	CMW500	102898	12-14-2023	12-13-2024
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-07-2024	04-06-2025
RSE Automatic test software	JS Tonscend	JS36-RSE	V4.0.0.0		
Cable line	Times	SFT205-NMSM-2.50M	394812-0001		·
Cable line	Times	SFT205-NMSM-2.50M	394812-0002		
Cable line	Times	SFT205-NMSM-2.50M	394812-0003		
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	(e)	(A)
Cable line	Times	EMC104-NMNM-1000	SN160710		
Cable line	Times	SFT205-NMSM-3.00M	394813-0001		
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	(3)
Cable line	Times	SFT205-NMSM-7.00M	394815-0001		
Cable line	Times	HF160-KMKM-3.00M	393493-0001		
	1 4 4 1	7 .07		100	

Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com





7 Radio Technical Requirements Specification

Reference documents for testing:

No.	Identity	Document Title
1	DADT 22	PART 22 – PUBLIC MOBILE SERVICES
	PART 22	Subpart H – Cellular Radiotelephone Service
	DADT 04	PART 24 – PERSONAL COMMUNICATIONS SERVICES
2	PART 24	Subpart E – Broadband PCS
		PART 27 – MISCELLANEOUS WIRELESS COMMUNICATIONS
3	PART 27	SERVICES
		Subpart C – Technical Standards
4	PART 90	PART 90—PRIVATE LAND MOBILE RADIO SERVICES
5	PART 2	Frequency allocations and radio treaty matters; general rules and regulations
6	TIA-603-E-2016	Land Mobile FM or PM -Communications Equipment -Measurement and
0	11A-003-L-2010	Performance Standards
7	KDB971168 D01	KDB971168 D01 Power Meas License Digital Systems v02r02
		American National Standard for
8	ANSI C63.26-2015	Compliance Testing of Transmitters
·	7.1.101.000.20.2010	Used in Licensed Radio Services

Test Results List:

i est ivesuits Eis	, t.				
Test Method:		Test Descriptions &Test Conditions	Verdict	Note	
ANIOL 000 00 0045	01 50	RF output pow	RF output power		
ANSI C63.26-2015	Clause 5.2	NT/NV	PASS	Note 1	
ANCI 062 26 2045	Olaviaa F 4	99% & 26dB Occupied	Bandwidth	Noted	
ANSI C63.26-2015	Clause 5.4	NT/NV	PASS	Note 1	
ANSI C63.26-2015	Clause 5.2	Peak to average po	wer ratio	Note 1	
ANSI C03.20-2013	Clause 5.2	NT/NV	PASS	Note 1	
ANSI C63.26-2015	Clause 5.5	Spurious emiss	Appendix A)		
ANSI C03.20-2013		NT/NV	PASS	Appendix A)	
ANSI C63.26-2015	Clause 5.7	Spurious emissions at antenna terminals		Note 1	
ANSI C03.20-20 13		NT/NV	PASS	Note 1	
	C63.26-2015 Clause 5.6	Frequency stab			
ANSI C63.26-2015		NT/NV	PASS	Note 1	
		LT/LV	PASS		
		LT/HV	PASS		
		HT/LV	PASS		
		HT/HV	PASS		

Note 1:

The test data please refer to

Appendix: LTE Band7 of EED32Q81423101















Appendix A) Field strength of spurious radiation

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark		
	0.009MHz-30MHz	Peak	10kHz	30kHz	Peak		
	30MHz-1GHz	Peak	120kHz	300kHz	Peak		
	Above 1GHz	Peak	1MHz	3MHz	Peak		
Measurement Procedure:	 Scan up to 10th harmonic The technique used to fantenna substitution meactual ERP/EIRP emiss Test procedure as below: The EUT was powered Anechoic Chamber. The length. modulation mod 	ind the Spurion ethod. Substitu sion levels of the ON and placed e antenna of the	us Emission tion method e EUT. I on a 0.8m e transmitte	is of the tra was perfo hight table er was exte	insmitter was rmed to deter at a 3 meter ended to its m	the mine the fully aximum	
	frequency of the transm 2) The EUT was set 3 metrinterference-receiving a antenna tower. 3) The disturbance of the traising and lowering from	itter under tes ers(above 18G ntenna, which ransmitter was m 1m to 4m th	:. Hz the distance was mount maximized e receive ar	ance is 1 m ed on the to I on the tes ntenna and	neter) away fro op of a variab t receiver disp by rotating th	om the le-height play by prough	
(cti)	 360° the turntable. After the fundamental emission was maximized, a field streng measurement was made. 4) Steps 1) to 3) were performed with the EUT and the receive antenna in both ver and horizontal polarization. 5) The transmitter was then removed and replaced with another antenna. The cent the antenna was approximately at the same location as the center of the transm 6) A signal at the disturbance was fed to the substitution antenna by means of a nor radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until measured field strength level in step 3) is obtained for this set of conditions. 7) The output power into the substitution antenna was then measured. 8) Steps 6) and 7)were repeated with both antennas polarized. 						
(chi)	9) Calculate power in dBm ERP(dBm) = Pg(dBi EIRP(dBm) = Pg(dBi EIRP=ERP+2.15dBi where:	by the followin m) – cable loss	ng formula: s (dB) + ant	· enna gain (
	Pg is the generator out 10) Test the EUT in the low 11) The radiation measurem operation mode, And fo 12) Repeat above procedure	est channel, the nents are perfo und the X axis	e middle ch rmed in X, positioning	annel the l Y, Z axis po which it is	Highest chanr ositioning for worse case.		
Limit:	Attenuated at least 43+10lo		17 <u>4</u> 24				
		- /					





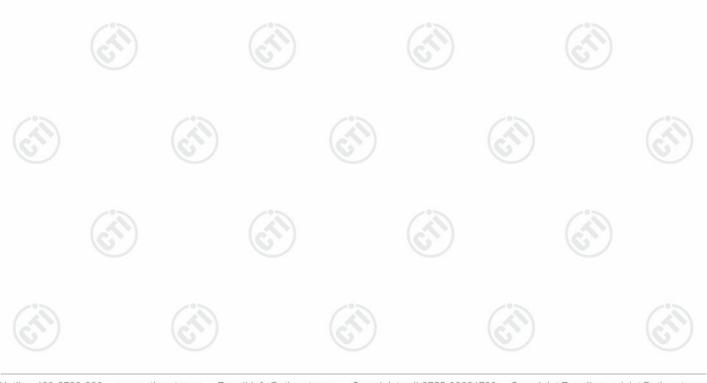
Report No.: EED32Q81423101 Page 13 of 25

Measurement Data:

Remark: Only the worst case data was recorded in the report.

Mode	LTE Traffic mode	Remark	
Band	Band=7 BW=20MHz	Channel	21100

Susp	Suspected List							
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	65.5091	150	314	-55.03	-13.00	42.03	PASS	Horizontal
2	179.4099	150	286	-64.12	-13.00	51.12	PASS	Horizontal
3	727.5695	150	3	-58.25	-13.00	45.25	PASS	Horizontal
4	1695.0695	150	248	-41.12	-13.00	28.12	PASS	Horizontal
5	6389.2695	150	88	-47.41	-13.00	34.41	PASS	Horizontal
6	10997.8374	150	0	-42.17	-13.00	29.17	PASS	Horizontal
7	54.6429	150	3	-52.26	-13.00	39.26	PASS	Vertical
8	177.0814	150	195	-68.00	-13.00	55.00	PASS	Vertical
9	626.2813	150	213	-74.02	-13.00	61.02	PASS	Vertical
10	1624.4624	150	213	-39.77	-13.00	26.77	PASS	Vertical
11	4505.4753	150	357	-48.92	-13.00	35.92	PASS	Vertical
12	11250.375	150	2	-41.89	-13.00	28.89	PASS	Vertical





Report No.: EED32Q81423101 Page 14 of 25

Mode	LTE Idle mode	Remark	
Band	Band=7 BW=20MHz	Channel	21100

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	54.4489	150	3	-59.32	-13.00	46.32	PASS	Horizontal
2	179.6039	150	265	-70.48	-13.00	57.48	PASS	Horizontal
3	728.5397	150	3	-72.88	-13.00	59.88	PASS	Horizontal
4	1747.9165	150	304	-51.53	-13.00	38.53	PASS	Horizontal
5	5355.107	150	35	-60.97	-13.00	47.97	PASS	Horizontal
6	11249.7	150	224	-52.75	-13.00	39.75	PASS	Horizontal
7	54.6429	150	3	-52.94	-13.00	39.94	PASS	Vertical
8	160.006	150	3	-69.11	-13.00	56.11	PASS	Vertical
9	625.117	150	316	-73.15	-13.00	60.15	PASS	Vertical
10	1660.1773	150	234	-50.92	-13.00	37.92	PASS	Vertical
11	4506.8005	150	176	-59.53	-13.00	46.53	PASS	Vertical
12	11989.4493	150	88	-52.65	-13.00	39.65	PASS	Vertical

