Report No.:
 XEWM2305000213RG05

 Rev.:
 01

 Page:
 1 of 22

TEST REPORT

Application No:	XEWM2305000213RG
Applicant:	HONG KONG UCLOUDLINK NETWORK TECHNOLOGY LIMITED
Address of Applicant:	Suite 603, 6/F, Laws Commercial Plaza, 788 Cheung Sha Wan Road, Kowloon, Hong Kong
Manufacturer:	HONG KONG UCLOUDLINK NETWORK TECHNOLOGY LIMITED
Address of Manufacturer:	Suite 603, 6/F, Laws Commercial Plaza, 788 Cheung Sha Wan Road, Kowloon, Hong Kong
EUT Description:	Revolutionary Intelligent KeyChain
Model No.:	GLMT23A01
Trade Mark:	GlocalMe
FCC ID:	2AC88-GLMT23A01
Standard(s):	FCC 47 CFR Part 15, Subpart B
Date of Receipt:	2023/05/09
Date of Test:	2023/06/03 to 2023/06/05
Date of Issue:	2023/06/20
Test Result:	Pass*

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Porer Tom

Peter Tan Regulatory Technical Manager



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 Report No.:
 XEWM2305000213RG05

 Rev.:
 01

 Page:
 2 of 22

Revision Record					
Version	Version Chapter Date Modifier Remark				
01		2023/06/20		Original	

Prepared By	Leah Chen (Leah Chen) / Test Engineer
Checked By	Andy Yao (Andy Yao) /Reviewer



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 Report No.:
 XEWM2305000213RG05

 Rev.:
 01

 Page:
 3 of 22

Test Summary

Emission Part					
Item	Standard	Method	Requirement	Result	
Conducted Emissions at Mains Terminals (150kHz-30MHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass	
Radiated Emissions (30MHz-1GHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass	
Radiated Emissions (above 1GHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass	

Internal Source	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower



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 Report No.:
 XEWM2305000213RG05

 Rev.:
 01

 Page:
 4 of 22

Contents

1	Ger	neral Information	5
	1.1 1.2 1.3 1.4 1.5	Description of Support Units Test Location Test Facility Deviation from Standards Abnormalities from Standard Conditions	6 6 6 6 6
2	2.1 2.1. 2.1. 2.2 2.2. 2.2. 2.2. 2.3 2.3 2.3. 2.3.	Conducted Emissions at Mains Terminals (150kHz-30MHz) 1 E.U.T. Operation 2 Test Setup Procedures 3 Measurement Data Radiated Emissions (30MHz-1GHz) 1 E.U.T. Operation 2 Test Setup Procedures 3 Measurement Data Radiated Emissions (above 1GHz) 1 E.U.T. Operation 2 Test Setup Procedures 3 Measurement Data 2 Test Setup Procedures 3 Measurement Data	
3	Equ	ipment List	19
4	Меа	asurement Uncertainty	21
5	Pho	otographs	22
	5.1	Test Setup	22



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 Report No.:
 XEWM2305000213RG05

 Rev.:
 01

 Page:
 5 of 22

1 General Information

Product Name:	Revolutionary Intelligent KeyChain				
Model No. (EUT):	GLMT23A01	GLMT23A01			
Trade Mark:	GlocalMe				
Hardware Version:	P020_V3				
Software Version:	T10_HTSV1.0.001.002	2.230601			
	RE	353682680004411			
	CE	353682680004411			
	Band	Tx (MHz)	Rx (MHz)		
	LTE Band 2	1850~1910	1930~1990		
	LTE Band 5	824~849	869~894		
	LTE Band 12	699~716	729~746		
	LTE Band 13	777~787	746~756		
	LTE Band 17	704~716	734~746		
Frequency Bands:	LTE Band 25	1850~1915	1930~1995		
	LTE Band 26	814~824	859~869		
	(814 to 824 MHz)	014 024			
	LTE Band 26	824~849	860~804		
	(824 to 849 MHz)	024 -049	009-094		
	Wi-Fi 2.4G	2412~2462	2412~2462		
	Bluetooth	2402~2480	2402~2480		

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 Report No.:
 XEWM2305000213RG05

 Rev.:
 01

 Page:
 6 of 22

1.1 Description of Support Units

Description	Manufacturer	Model No.	Inventory No.
Adapter	HONOR	HW-100225C00	1

1.2 Test Location

All tests were performed at:

Company:	SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.		
Address:	1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi' an, Shaanxi China		
Post code:	710086		
Test engineer:	Weichao Tang		

1.3 Test Facility

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

•A2LA (Certificate No. 4854.01)

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0095.

IC#: 25613.

• FCC –Designation Number: CN1337

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN1337.

Test Firm Registration Number: 917410

1.4 Deviation from Standards

None

1.5 Abnormalities from Standard Conditions

None



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 Report No.:
 XEWM2305000213RG05

 Rev.:
 01

 Page:
 7 of 22

2 Emission Test Results

2.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement:	47 CFR Part 15, Subpart B			
Test Method:	ANSI C63.4:2014			
Frequency Range:	150kHz to 30MHz			
Receiver Setup:	RBW = 9kHz, VBW = 30kHz			
	Frequency Range (MHz)	Limit(dBµV)		
		Quasi-peak	average	
	0.15M-0.5MHz	66 ~ 56*	56 ~ 46*	
Limit:	0.5M-5MHz	56	46	
	5M-30MHz 60 50		50	
	*Decreases with the logarithm of the frequency			
	Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz			

2.1.1 E.U.T. Operation

Operating Environment:

Temperature:	22~25°C
Humidity:	40~60%RH
Atmospheric Pressure:	96~98kPa
Pretest these modes to find the worst case:	a: adapter+USB Cable+BT+2.4GWLAN +LTE Band 5 Idle Mid b: adapter+USB Cable+BT+2.4GWLAN +LTE Band 12 Idle Mid c: adapter+USB Cable+BT+2.4GWLAN +LTE Band 13 Idle Mid d: adapter+USB Cable+BT+2.4GWLAN +LTE Band 17 Idle Mid e: adapter+USB Cable+BT+2.4GWLAN +LTE Band 26 Idle Mid
The worst case for final test:	c: adapter+USB Cable+BT+2.4GWLAN +LTE Band 13 Idle Mid



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 Report No.:
 XEWM2305000213RG05

 Rev.:
 01

 Page:
 8 of 22

2.1.2 Test Setup Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.

- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.

8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.



2.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.



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 Report No.:
 XEWM2305000213RG05

 Rev.:
 01

 Page:
 9 of 22



1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

3. Margin = Limit[dB μ V] – Value[dB μ V]



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 Report No.:
 XEWM2305000213RG05

 Rev.:
 01

 Page:
 10 of 22



1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

3. Margin = Limit[dB μ V] – Value[dB μ V]



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 Report No.:
 XEWM2305000213RG05

 Rev.:
 01

 Page:
 11 of 22

2.2 Radiated Emissions (30MHz-1GHz)

Test Requirement:	47 CFR Part 15, Subpart B		
Test Method:	ANSI C63.4:2014		
Frequency Range:	30MHz to 1GHz		
Measurement Distance:	3m		
	Frequency Range (MHz)	Limit(dBµV/m)	Detector
	30MHz -88MHz	40.0	Quasi-peak
Limit:	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1000MHz	54.0	Quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz		

2.2.1 E.U.T. Operation

Temperature:	22~25°C				
Humidity:	40~60%RH				
Atmospheric Pressure:	96~98kPa				
Pretest these modes to find the worst case:	a: adapter+USB Cable+BT+2.4GWLAN +LTE Band 5 Idle Mid b: adapter+USB Cable+BT+2.4GWLAN +LTE Band 12 Idle Mid c: adapter+USB Cable+BT+2.4GWLAN +LTE Band 13 Idle Mid d: adapter+USB Cable+BT+2.4GWLAN +LTE Band 17 Idle Mid e: adapter+USB Cable+BT+2.4GWLAN +LTE Band 26 Idle Mid				
The worst case for final test:	a: adapter+USB Cable+BT+2.4GWLAN +LTE Band 5 Idle Mid				



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 Report No.:
 XEWM2305000213RG05

 Rev.:
 01

 Page:
 12 of 22

2.2.2 Test Setup Procedures

1. The EUT was placed in a semi Anechoic Chamber as show below

2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

3. The table was rotated 360 degrees to determine the position of the highest radiation.

4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.

5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.

6. Set the test-receiver system to Peak Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.

7. If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.



2.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

The three polarities of X,Y,Z were measured by EUT, but only the worst data had been displayed.



 Report No.:
 XEWM2305000213RG05

 Rev.:
 01

 Page:
 13 of 22



Remark:

1. The Quasi-Peak measurements were performed on the EUT.

2. Value = Reading + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Margin = Limit[dBµV/m] –Value[dBµV/m]

Note*: #7 30M-1G is system simulator signal which can be ignored.



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 Report No.:
 XEWM2305000213RG05

 Rev.:
 01

 Page:
 14 of 22



NO.	Freq. [MHz]	AF [dB/m]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.5973	11.98	-27.99	45.18	29.17	40.00	10.83	163	285	Vertical
2	71.3303	8.40	-27.33	38.36	19.43	40.00	20.57	211	87	Vertical
3	180.5741	9.14	-26.46	41.64	24.32	43.50	19.18	128	356	Vertical
4	333.2827	14.17	-25.81	32.76	21.12	46.00	24.88	224	112	Vertical
5	634.4309	19.30	-24.54	29.3	24.06	46.00	21.94	148	321	Vertical
6*	881.4423	21.76	-23.69	36.59	34.66	-	-	263	197	Vertical
7	972.0584	22.14	-23.41	29.91	28.64	54.00	25.36	100	302	Vertical

Remark:

1. The Quasi-Peak measurements were performed on the EUT.

2. Value = Reading + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Margin = Limit[dB μ V/m] –Value[dB μ V/m]

Note*: #6 30M-1G is system simulator signal which can be ignored.



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 Report No.:
 XEWM2305000213RG05

 Rev.:
 01

 Page:
 15 of 22

2.3 Radiated Emissions (above 1GHz)

Test Requirement:	47 CFR Part 15, Subpart B				
Test Method:	ANSI C63.4:2014				
Frequency Range:	Above 1GHz				
Measurement Distance:	3m				
	Frequency (MHz)	Limit (dBµV/m)	Detector		
Limit:	Above 1GHz	74	Peak		
		54	Average		
Detector:	Peak for pre-scan (1000kHz resolution bandwidth) 5th harmonic of the highest frequency or 40GHz, whichever is lower.				

2.3.1 E.U.T. Operation

Temperature:	22~25°C					
Humidity:	40~60%RH					
Atmospheric Pressure:	96~98kPa					
	a: adapter+USB Cable+BT+2.4GWLAN +LTE Band 5 Idle Mid					
Desta statica e una desta	b: adapter+USB Cable+BT+2.4GWLAN +LTE Band 12 Idle Mid					
find the worst case:	c: adapter+USB Cable+BT+2.4GWLAN +LTE Band 13 Idle Mid					
	d: adapter+USB Cable+BT+2.4GWLAN +LTE Band 17 Idle Mid					
	e: adapter+USB Cable+BT+2.4GWLAN +LTE Band 26 Idle Mid					
The worst case for final test:	a: adapter+USB Cable+BT+2.4GWLAN +LTE Band 5 Idle Mid					



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 Report No.:
 XEWM2305000213RG05

 Rev.:
 01

 Page:
 16 of 22

2.3.2 Test Setup Procedures

1. The EUT was placed in a full Anechoic Chamber as show below

2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

3. The table was rotated 360 degrees to determine the position of the highest radiation

(Distance from antenna to EUT is 1m for measurements >18GHz).

4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.

5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.

6. Set the test-receiver system to Peak and AV Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.

7. At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.



2.3.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

The three polarities of X, Y, Z were measured by EUT, but only the worst data had been displayed. Scan from 5th harmonic of the highest frequency or 40GHz, whichever is lower, the disturbance above 18GHz was very low. The points marked on below plots are the highest emissions could be found when testing, so only below points had been displayed.



 Report No.:
 XEWM2305000213RG05

 Rev.:
 01

 Page:
 17 of 22



Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit[dBµV/m] – Level[dBµV/m]

Note*: #1 1G-18G is RF signal which come from Wi-Fi access point used to connect the EUT, and which can be ignored.



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 Report No.:
 XEWM2305000213RG05

 Rev.:
 01

 Page:
 18 of 22



Remark:

1. The Peak and Average measurements were performed on the EUT.

2. Level = Reading Level + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit[dBµV/m] – Level[dBµV/m]

Note*: #1 1G-18G is RF signal which come from Wi-Fi access point used to connect the EUT, and which can be ignored.



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 Report No.:
 XEWM2305000213RG05

 Rev.:
 01

 Page:
 19 of 22

3 Equipment List

CE Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	XAW04-03-01	N/A	N/A
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2022/09/08	2023/09/07
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2022/06/30	2023/06/29
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2022/09/18	2023/09/17
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-07-01	NCR	NCR
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2023/02/16	2024/02/15
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-02	2022/06/30	2023/06/29



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 Report No.:
 XEWM2305000213RG05

 Rev.:
 01

 Page:
 20 of 22

RE Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2021/09/09	2024/09/08
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2023/02/16	2024/02/15
Spectrum Analyzer	ROHDE &SCHWARZ	FSV3044	XAW01-13-05	2023/05/15	2024/05/14
Test receiver	ROHDE &SCHWARZ	ESR	XAW01-08-01	2022/09/08	2023/09/07
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2022/07/28	2024/07/27
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2022/07/28	2024/07/27
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2022/07/23	2024/07/22
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP9K3G32	XAW01-41-01	2023/05/15	2024/05/14
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2022/09/14	2023/09/13
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2022/09/14	2023/09/13
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2022/09/14	2023/09/13
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2022/09/18	2023/09/17
Radio communication analyzer	ROHDE&SCH WARZ	CMW 500	XAW01-03-02	2023/02/16	2024/02/15
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-05-01	NCR	NCR



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 Report No.:
 XEWM2305000213RG05

 Rev.:
 01

 Page:
 21 of 22

4 Measurement Uncertainty

No.	Item	Measurement Uncertainty	
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)	
2		± 4.9dB (30MHz to 1GHz)	
	Radiated Emission	± 4.9dB (1GHz to 6GHz)	
		± 4.7dB (6GHz to 18GHz)	

Remark:

The U_{Iab} (Iab Uncertainty) is less than $U_{cispr/ETSI}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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 Report No.:
 XEWM2305000213RG05

 Rev.:
 01

 Page:
 22 of 22

5 Photographs

5.1 Test Setup

Refer to Appendix A.1 15B Setup Photos.

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