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Report No.: 2105RSU034-U2 Report Version: V01 Issue Date: 12-14-2021

RF Exposure Evaluation Declaration

FCC ID: XCO-CONNECT1

Applicant: Hansong(Nanjing) Technology Ltd.

Application Type: Certification

Product: Wireless Transmitter

Model No.: Easy Connect Pro

Brand Name: Platin

FCC Classification: Digital Transmission System (DTS)

Test Procedure(s): KDB 447498 D01v06

Reviewed By:		The state of the s	
	Kevin Guo	ilac-MRA	
Approved By:			ACCREDITED
	Robin Wu	- Mahahaha	TESTING LABORATORY

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

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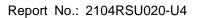
Revision History

Report No.	Version	Description	Issue Date	Note
2105RSU034-U2	Rev. 01	Initial Report	12-14-2021	Valid



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1. General Information

1.1. Applicant

Hansong (Nanjing) Technology Ltd.

8th Kangping Road, Jiangning Economy and Technology Development Zone, Nanjing, 211100, China

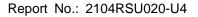
1.2. Manufacturer

Hansong (Nanjing) Technology Ltd.

8th Kangping Road, Jiangning Economy and Technology Development Zone, Nanjing, 211100, China

1.3. Testing Facility

\boxtimes	Test Site - MRT	Test Site – MRT Suzhou Laboratory					
	Laboratory Location (Suzhou - Wuzhong)						
Ĭ	D8 Building, No.2	D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China					
	Laboratory Loca	ation (Suzhou - SIP	')				
Ĭ	4b Building, Liand	do U Valley, No.200	Xingpu Rd., Shengpu	u Town, Suzhou Indu	ıstrial Park, China		
	Laboratory Accre	editations					
Ĭ	A2LA: 3628.01		CNAS	S: L10551			
	FCC: CN1166		ISED:	: CN0001			
	Voch	□R-20025	□G-20034	□C-20020	□T-20020		
	VCCI:	□R-20141	□G-20134	□C-20103	□T-20104		
	Test Site – MRT Shenzhen Laboratory						
	Laboratory Loca	tion (Shenzhen)					
	1G, Building A, Ju	ınxiangda Building,	ıd West, Nanshan Di	strict, Shenzhen, China			
	Laboratory Accre	editations					
	A2LA: 3628.02	PLA: 3628.02 CNAS: L10551					
	FCC: CN1284	CN1284 ISED: CN0105					
	Test Site – MRT Taiwan Laboratory						
	Laboratory Loca	tion (Taiwan)					
	No. 38, Fuxing 2n	ıd Rd., Guishan Dis	st., Taoyuan City 333,	Taiwan (R.O.C.)			
	Laboratory Accre	editations					
	TAF: L3261-1907	25					
	FCC: 291082, TW	/ 3261	ISED:	TW3261			





1.4. Product Information

Product Name	Wireless Transmitter	
Model No.	Easy Connect Pro	
Brand Name	Platin	
Bluetooth Version	Bluetooth v4.1 (Single Mode, BLE)	
Wi-Fi Specification	802.11a	
Antenna Information	Refer to section 1.5	
Power Type	AC/DC Adapter	
Accessory		
	Model No.: GPE006E-050100-Z	
AC/DC Adapter	Input: 100-240V~50/60Hz, 0.2A	
	Output: 5.0V===1.0A, 5.0W Max	

Remark:

- The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.
- 2. EUT installs an authorized module (FCC ID: UA9800), it can transmit simultaneously with BLE, so we perform co-location RSE test in this report.

1.5. Radio Specification

Frequency Range	2402 ~ 2480MHz
Channel Number	40
Type of Modulation	GFSK
Data Rate	1Mbps
Antenna Type	PCB Antenna
Antenna Gain	2dBi

Note: For other features of this EUT, test report will be issued separately.





2. RF Exposure Evaluation

2.1. Test Limit

According to FCC 1.1310: 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	Electric Field Magnetic Field		Power Density	Average Time			
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm ²)	(Minutes)			
	(A) Limits for Occupational/ Control Exposures						
300-1500			f/300 6				
1500-100,000		5		6			
(B) Limits for General Population/ Uncontrolled Exposures							
300-1500			f/1500	6			
1500-100,000			1	30			

f= Frequency in MHz

Calculation Formula: $Pd = (Pout*G)/(4*pi*r^2)$

Where

Pd = power density in mW/cm²

Pout = 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

Pd is the limit of MPE, 1mW/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.





2.2. Test Result

Product	Wireless Transmitter
Test Item	RF Exposure Evaluation

Antenna Gain: Refer to clause 1.5.

Test Mode	Frequency	Maximum	Antenna Gain	Maximum	Power Density	Limit
	Band (MHz)	conducted	(dBi)	EIRP	at	(mW/cm ²)
		power		(dBm)	R = 20 cm	
		(dBm)			(mW/cm ²)	
Bluetooth	2402 ~ 2480	4.34	2.0	6.34	0.0009	1.0
Wi-Fi	5180 ~ 5825	18.80	1.0	19.8	0.0190	1.0

Note: Conducted power of Wi-Fi is from module reports.

CONCLUSION:

The max Power Density at R $(20 \text{ cm}) = 0.0009 \text{mW/cm}^2 + 0.0190 \text{ mW/cm}^2 = 0.0199 \text{ mW/cm}^2 < 1 \text{ mW/cm}^2$. Therefore, the compliance distance is 20cm.



Appendix A - EUT Photograph

Refer to "2105RSU034-UE" file.

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