RF Exposure Report

Report No.:	SA171116C22
FCC ID:	2AGPT-PLNX
Test Model:	2AGPT-PLNX
Received Date:	Nov. 16, 2017
Test Date:	Dec. 13 ~ Dec. 28, 2017
Issued Date:	Mar. 22, 2018
Applicant:	SolarEdge Technologies Ltd
Address:	1 HaMada Street Herzeliya 4673335
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan (R.O.C.)
Test Location:	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)

Table of Contents

Release Control Record

Issue No.	Description	Date Issued
SA171116C22	Original release.	Mar. 22, 2018

1 Certificate of Conformity

Product:	Linux communication board
Brand:	solaredge
Test Model:	2AGPT-PLNX
Sample Status:	Mass-production
Applicant:	SolarEdge Technologies Ltd
Test Date:	Dec. 13 ~ Dec. 28, 2017
Standards:	FCC Part 2 (Section 2.1091) KDB 447498 D01 General RF Exposure Guidance v06 IEEE C95.1

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : _____ , **Date:** Mar. 22, 2018

Suntee Liu / Specialist

Approved by : _____ , **Date:** Mar. 22, 2018

Bruce Chen / Project Engineer

2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1500	…	…	F/1500	30
1500-100,000	…	…	1.0	30

F = Frequency in MHz

2.2 MPE Calculation Formula

$Pd = (Pout*G) / (4*pi*r^2)$
where
Pd = power density in mW/cm^2
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

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as Mobile Device.

3 Calculation Result of Maximum Conducted Power

Function	Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
WLAN	2412~2462	11.32	2.9	20	0.005	1
Zigbee	2405~2480	18.85	2.9	20	0.030	1

Frequency Band	Max Power (dBm)		Total Power (dBm)	Power Limit (dBm)
	WLAN	Zigbee		
2.4GHz	11.32	18.85	19.56	30

Conclusion:
The formula of calculated the MPE is:
CPD1 / LPD1 + CPD2 / LPD2 + ……etc. < 1
CPD = Calculation power density
LPD = Limit of power density

WLAN + Zigbee = 0.005 +0.030 = 0.035 < 1

---END---