

## 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

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**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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**Test Location:** No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)



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### 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 <sup>2</sup> )	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

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

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = 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

### 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 <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
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:

$$CPD1 / LPD1 + CPD2 / LPD2 + \dots \text{etc.} < 1$$

CPD = Calculation power density

LPD = Limit of power density

$$WLAN + Zigbee = 0.005 + 0.030 = 0.035 < 1$$

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