

RF EXPOSURE REPORT

REPORT NO.: SA120328C12B

MODEL NO.: WPEA-127NI

FCC ID: RYK-WPEA127NI

RECEIVED: Mar. 28, 2012

TESTED: Aug. 31 ~ Sep. 05, 2013

ISSUED: Sep. 12, 2013

APPLICANT: SparkLAN Communications, Inc.

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ISSUED BY: Bureau Veritas Consumer Products Services
(H.K.) Ltd., Taoyuan Branch

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA120328C12B	Original release	Sep. 12, 2013

1. CERTIFICATION

PRODUCT: 802.11a/b/g/n 3T3R Mini PCIe Module

MODEL: WPEA-127NI

BRAND: SparkLAN

APPLICANT: SparkLAN Communications, Inc.

TESTED: Aug. 31 ~ Sep. 05, 2013

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: FCC Part 2 (Section 2.1091)

FCC OET Bulletin 65, Supplement C (01-01)

IEEE C95.1

The above equipment (Model: WPEA-127NI) 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 EMC characteristics under the conditions specified in this report.

PREPARED BY :  , **DATE:** Sep. 12, 2013
Pettie Chen / Senior Specialist

APPROVED BY :  , **DATE:** Sep. 12, 2013
Ken Liu / Senior Manager

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

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

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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**.

2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
5180-5240	14.36	4.58	20	0.016	1
5260-5320	17.12	4.58	20	0.029	1
5500-5700	17.11	4.58	20	0.029	1
5745-5825	20.64	4.58	20	0.066	1