

RF Exposure Report

Report No.: SA170328D10

FCC ID: P27LC4RT1

Test Model: LC4R-T

Received Date: Jun. 17, 2016

Test Date: Jun. 29 ~ 30, 2016, Nov. 10, 2016 & Mar. 29 ~ 30, 2017

Issued Date: Mar. 31, 2017

Applicant: Sercomm Corp.

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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.	Description	Date Issued
SA170328D10	Original release.	Mar. 31, 2017

1 Certificate of Conformity

Product: Ninja LTE module

Brand: Sercomm

Test Model: LC4R-T

Sample Status: Engineering sample

Applicant: Sercomm Corp.

Test Date: Jun. 29 ~ 30, 2016, Nov. 10, 2016 & Mar. 29 ~ 30, 2017

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D03

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 EMC characteristics under the conditions specified in this report.

Prepared by :



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Date:

Mar. 31, 2017

Approved by :



Rex Lai / Assistant Manager

Date:

Mar. 31, 2017

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 21cm away from the body of the user.

So, this device is classified as **Mobile Device**.

3 Calculation Result Of Maximum Conducted Power

Frequency Band (MHz)	EIRP (dBm)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
LTE Band 25: 1852.5MHz ~1912.5MHz	32.23	21	0.3015	1

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
LTE Band 41: 2506.8MHz ~ 2560MHz, 2628.8MHz ~ 2680MHz	26.79	10.51	21	0.9691	1

NOTE: Directional gain = 7.5dBi + 10log(2) = 10.51dBi

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