RF EXPOSURE REPORT

REPORT NO.: SA141226D01

MODEL NO.: 9962 Multi-Standard Enterprise Cellxxxxx

FCC ID: P279962MCI

RECEIVED: Dec. 26, 2014

TESTED: Jan. 10 ~ Feb. 2, 2015

ISSUED: Feb. 5, 2015

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.	REASON FOR CHANGE	DATE ISSUED
SA141226D01	Original release	Feb. 5, 2015

1. CERTIFICATION

PRODUCT:	9962 Multi-Standard AP; Metro Cell Indoor
BRAND NAME:	Alcatel-Lucent
MODEL NO.:	9962 Multi-Standard Enterprise Cellxxxxx (where "x" is blank, number or any characters)
APPLICANT:	Sercomm Corp.
TESTED:	Jan. 10 ~ Feb. 2, 2015
TEST SAMPLE:	ENGINEERING SAMPLE
STANDARDS:	FCC Part 2 (Section 2.1091) KDB 447498 D03 IEEE C95.1

The above equipment (Model: 9962 Multi-Standard Enterprise Cell) 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 : Annie Chang , **DATE:** Feb. 5, 2015

(Annie Chang / Supervisor)

APPROVED BY : Rex. Lai , **DATE:** Feb. 5, 2015

(Rex Lai / Assistant Manager)

2. RF EXPOSURE LIMIT

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

3. MPE CALCULATION FORMULA

Pd = (Pout*G) / (4*pi*r2)

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

4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 30cm away from the body of the user. So, this device is classified as **Mobile Device**.

5. 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)
2412 ~ 2462	29.97	8.71	30	0.6525	1.00
5180 ~ 5240	21.04	8.28	30	0.0756	1.00
5745 ~ 5825	21.06	8.28	30	0.0760	1.00
LTE Band 4	27.56	2.34	30	0.1944	1.00
LTE Band 12	28.17	3.64	30	0.0952	0.49
3G Band 2	23.71	3.61	30	0.1073	1.00
3G Band 5	24.22	2.70	30	0.0383	0.58

NOTE: 1. Directional gain for WLAN 2.4GHz =5.70dBi + 10log(2)= 8.71dBi

Directional gain for WLAN 5.0GHz =5.27dBi + 10log(2)= 8.28dBi

2. 2.4GHz & 5.0GHz can transmit simultaneously.

3G & LTE can't transmit simultaneously.

CONCULSION:

Both of the modules can transmit simultaneously, the formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 + ……etc. < 1

CPD = Calculation power density

LPD = Limit of power density

1. WLAN (2.4GHz) + WLAN (5.0GHz) + LTE = 0.6525/1 + 0.0760/1 + 0.1944/1.00 = 0.9229

2. WLAN (2.4GHz) + WLAN (5.0GHz) + 3G = 0.6525/1 + 0.0760/1 + 0.1073/1.00= 0.8358

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