RF EXPOSURE REPORT

REPORT NO.:	SA120314E09B
MODEL NO.:	SMCD3GN4xxxxx (x =0-9, A-Z, a-z, "-", ".", or blank for marketing purpose only)
FCC ID:	JI5-D3GN4
RECEIVED:	July 23, 2012
TESTED:	July 26, 2012
ISSUED:	Sep. 04, 2012
APPLICANT:	SMC Networks Inc.
ADDRESS:	20 Mason, Irvine, CA 92618, USA
ISSUED BY:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory
LAB ADDRESS:	No. 81-1, Lu Liao Keng, 9th Ling,Wu Lung Tsuen, Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan, R.O.C.

This report should not be used by the client to claim product certification, approval, or endorsement by any government agencies.

TABLE OF CONTENTS

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA120314E09B	Original release	Sep. 04, 2012

1. CERTIFICATION

PRODUCT:	Wireless Gateway
BRAND NAME:	SMC
MODEL NO.:	SMCD3GN4xxxxx (x =0-9, A-Z, a-z, "- ", "." , or blank for marketing purpose only)
TEST SAMPLE:	ENGINEERING SAMPLE
APPLICANT:	SMC Networks Inc.
TESTED:	July 26, 2012
STANDARDS:	FCC Part 2 (Section 2.1091)
	FCC OET Bulletin 65, Supplement C (01-01)
	IEEE C95.1

The above equipment (Model: SMCD3GN4) 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. 04, 2012
(Lori Chung, Specialist)

APPROVED BY : _____ , **DATE:** Sep. 04, 2012
(May Chen, Deputy 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

$Pd = (Pout*G) / (4*pi*r^2)$

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

4. 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**.

5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

For 2.4GHz						
Transmitter Circuit	Brand	Model	Peak Gain (dBi)	Antenna Type	Connecter Type	Cable Length (cm)
Chain (0)	Airgain	N2420DS_20120621rev2	3.3	PIFA	U.FL	10
Chain (1)	Airgain	N2420DS_20120621rev2	3.3	PIFA	U.FL	10

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/ cm^2)	LIMIT (mW/cm^2)
2412-2462	908.567	3.30	20	0.38644	1.00

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