RF EXPOSURE REPORT

REPORT NO.:	SA121009E03
MODEL NO.:	WN6500RH
FCC ID:	SUZ-WN6500RH
RECEIVED:	Oct. 09, 2012
TESTED:	Oct. 20 ~ Oct. 31, 2012
ISSUED:	Nov. 13, 2012

APPLICANT:	Coretronic Corp.
ADDRESS:	No. 11, Li Hsing Rd, Science-Based Industrial Park, Hsinchu, Taiwan.

ISSUED BY:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
LAB ADDRESS:	No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.
TEST LOCATION:	No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA121009E03	Original release	Nov. 13, 2012

1. CERTIFICATION

PRODUCT:	802.11n, Dual Band, 2T2R Wireless LAN PCI Express Half Mini Module
MODEL NO.:	WN6500RH
BRAND:	Coretronic
APPLICANT:	Coretronic Corp.
TESTED:	Oct. 20 ~ Oct. 31, 2012
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: WN6500RH) 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 : Nov. 13, 2012
Ivy Lin / Specialist

APPROVED BY : _____ , DATE : Nov. 13, 2012
Ken Liu / 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

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

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

1TX

FREQUENCY BAND (MHz)	MODULATION MODE	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm^2)	LIMIT (mW/cm^2)
2412-2462	802.11b	19.08	1.9	20	0.025	1
	802.11g	24.92	1.9	20	0.096	1
	802.11n (20MHz)	23.81	1.9	20	0.074	1
	802.11n (40MHz)	22.23	1.9	20	0.051	1
5180-5240	802.11a	11.73	2.59	20	0.005	1
	802.11n (20MHz)	7.98	2.59	20	0.003	1
	802.11n (40MHz)	4.72	2.59	20	0.001	1
5260-5320	802.11a	12.24	3.94	20	0.008	1
	802.11n (20MHz)	8.39	3.94	20	0.003	1
	802.11n (40MHz)	4.91	3.94	20	0.002	1
5500-5700	802.11a	12.92	3.73	20	0.010	1
	802.11n (20MHz)	10.43	3.73	20	0.005	1
	802.11n (40MHz)	6.43	3.73	20	0.002	1
5745-5825	802.11a	23.10	4.21	20	0.107	1
	802.11n (20MHz)	21.70	4.21	20	0.078	1
	802.11n (40MHz)	21.41	4.21	20	0.073	1

2TX

FREQUENCY BAND (MHz)	MODULATION MODE	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm^2)	LIMIT (mW/cm^2)
2412-2462	802.11n (20MHz)	25.11	1.9	20	0.100	1
	802.11n (40MHz)	24.79	1.9	20	0.093	1
5180-5240	802.11n (20MHz)	13.78	2.59	20	0.009	1
	802.11n (40MHz)	11.87	2.59	20	0.006	1
5260-5320	802.11n (20MHz)	15.80	3.94	20	0.019	1
	802.11n (40MHz)	12.19	3.94	20	0.008	1
5500-5700	802.11n (20MHz)	15.73	3.73	20	0.018	1
	802.11n (40MHz)	13.59	3.73	20	0.011	1
5745-5825	802.11n (20MHz)	23.80	4.21	20	0.126	1
	802.11n (40MHz)	22.21	4.21	20	0.087	1