

RF EXPOSURE REPORT

REPORT NO.: SA130328C30

 MODEL NO.:
 M2M6270T

 FCC ID:
 NKRM2M6270TDK

 RECEIVED:
 Mar. 08, 2013

 TESTED:
 Apr. 09, 2013

ISSUED: Apr. 23, 2013

APPLICANT: Wistron NeWeb Corporation

ADDRESS: 20 Park Avenue II, Hsinchu, Science Park, Hsinchu 30076, Taiwan (R.O.C)

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.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA130328C30	Original release	Apr. 23, 2013



1. CERTIFICATION

PRODUCT:M2M Development KitMODEL NO.:M2M6270TBRAND:Wistron NeWeb CorporationAPPLICANT:Wistron NeWeb CorporationTESTED:Apr. 09, 2013TEST SAMPLE:ENGINEERING SAMPLESTANDARDS:FCC Part 2 (Section 2.1091)FCC OET Bulletin 65, Supplement C (01-01)IEEE C95.1

The above equipment (model: M2M6270T) 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.

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	Roy Wu / Manager		



2. RF EXPOSURE

2.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)		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

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

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

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**.



Frequency BAND	Operating	Maximum Conducted (dBm)		Gain	E.I.R.P.	Power	Limit	
(MHz)	Mode	Burst Avg. power	Time Avg. power	(dBi)	(mW)	Density (mW/cm2)	(mW/cm2)	
GSM 850	GPRS 12	30.66	27.66	0.6	688.30	0.13	0.55	
GSM1900	GPRS 12	27.70	24.70	-0.1	287.72	0.06	1	

2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

Frequency band (MHz)	Conducted Avg. power (dBm)	Antenna Gain (dBi)	E.I.R.P. (mW)	Power Density (mW/cm2)	Limit (mW/cm2)
2412~2462	15.52	2.8	67.92	0.014	1

2.5 Evaluation of Simultaneous transmission

There is one WWAN module and one WLAN module installed in EUT. According to KDB 616217 D03 4) a), the formula is as following and the calculation is listed in below table.

(\sum of the highest MPE / MPE limit) < 1

Co-transmission Configuration	Highest WLAN MPE	MPE Limitation	Highest WWAN MPE	MPE Limitation	Sum of Ratio
WLAN + GSM 850	0.014	1.00	0.13	0.55	0.25
WLAN + GSM1900	0.014	1.00	0.06	1.00	0.07