

RF Exposure Report

Report No.: SA181005C08

FCC ID: NKRIMQ3

Test Model: IMQ3-2

Series Model: IMQ3-0, IMQ3-1, IMQ3-3

Received Date: Oct. 05, 2018

Date of Evaluation: Jan. 21, 2019

Issued Date: Jan. 25, 2019

Applicant: Wistron NeWeb Corporation

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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Test Location: No. 19, Hwa Ya 2nd Rd, Wen Hwa Vil, Kwei Shan Dist., Taoyuan City 33383, Taiwan (R.O.C)

FCC Registration /
Designation Number: 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
SA181005C08	Original Release	Jan. 25, 2019

1 Certificate of Conformity

Product: M2M DATA MODULE

Brand: WNC

Test Model: IMQ3-2

Series Model: IMQ3-0, IMQ3-1, IMQ3-3

Sample Status: Engineering Sample

Applicant: Wistron NeWeb Corporation

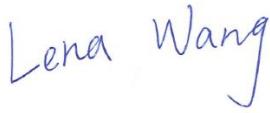
Date of Evaluation: Jan. 21, 2019

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

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 RF characteristics under the conditions specified in this report.


Prepared by : _____, **Date:** Jan. 25, 2019

Lena Wang / Specialist


Approved by : _____, **Date:** Jan. 25, 2019

Dylan Chiou / Project Engineer

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				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	f/1500	30
1500-100,000	1.0	30

f = Frequency in MHz ; *Plane-wave equivalent power density

2.2 MPE Calculation Formula

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

where

Pd = power density in mW/cm²

Pout = 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 20cm away from the body of the user.

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

2.4 Antenna Gain

Antenna Type	Antenna Gain (dBi)								
	GSM850	PCS1900	LTE 2	LTE 4	LTE 5	LTE 12	LTE 13	LTE 25	LTE 26
Dipole	-3.5	0.6	0.6	0.6	-3.5	-3.5	-3.5	0.6	-3.5

2.5 Calculation Result of Maximum Conducted Power

Band	Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
GSM850	824-849	23.24	-3.5	20	0.019	0.55
PCS1900	1850-1910	22.98	0.6	20	0.045	1.00
LTE 2	1850-1910	23.53	0.6	20	0.051	1.00
LTE 4	1710-1755	23.75	0.6	20	0.054	1.00
LTE 5	824-849	23.72	-3.5	20	0.021	0.55
LTE 12	699-716	23.89	-3.5	20	0.022	0.47
LTE 13	777-787	23.95	-3.5	20	0.022	0.52
LTE 25	1850-1915	23.28	0.6	20	0.049	1.00
LTE 26	814-849	23.27	-3.5	20	0.019	0.54

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