

## RF EXPOSURE REPORT

REPORT NO.: SA991207C23B

MODEL NO.: LM-WM860A

FCC ID: PD5-LMWM860A

**ACCORDING:** FCC Guidelines for Human Exposure

**IEEE C95.1** 

APPLICANT: Delta Networks, Inc.

ADDRESS: 252, Shang Ying Road, Kuei San Taoyuan Shien

333, Taiwan, R.O.C.

**ISSUED BY:** Bureau Veritas Consumer Products Services (H.K.)

Ltd., Taoyuan Branch

LAB ADDRESS: No. 47, 14th Ling, Chia Pau Tsuen, Lin Kou Hsiang,

Taipei Hsien 244, 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
Original release	N/A	Aug. 30, 2011



### 1. CERTIFICATION

**PRODUCT:** 802.11 bgn RF Module

MODEL: LM-WM860A

BRAND: DNI

APPLICANT: Delta Networks, Inc.

TEST SAMPLE: ENGINEERING SAMPLE

**TESTED:** Aug. 09 ~ Aug. 25, 2011

STANDARDS: FCC Guidelines for Human Exposure

**IEEE C95.1** 

The above equipment (Model: LM-WM860A) 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.

APPROVED BY

Gary Chang / Assistant Manager

, **DATE**: Aug. 30, 2011



### 2. RF EXPOSURE

#### 2.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY ELECTRIC FIELD STRENGTH (V/m		MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm²)	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

MODULATION MODE	FREQUENCY BAND (MHz)	MAX CONDUCTED POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm²)	LIMIT (mW/cm²)
802.11b	2412-2462	22.1	5.85	20	0.124	1
802.11g	2412-2462	27.9	5.85	20	0.472	1
802.11n (20MHz)	2412-2462	28.0	2.84	20	0.241	1
802.11n (40MHz)	2422-2452	26.6	2.84	20	0.175	1

NOTE:

(802.11 b/g): Directional gain =2.84dBi + 10log(2)=5.85dBi