

### RF EXPOSURE REPORT

**REPORT NO.:** SA141006C28

MODEL NO.: SGCM-W50

FCC ID: PD5SGCM-W50

**RECEIVED:** Oct. 06, 2014

**TESTED:** Oct. 16 ~ Oct. 28, 2014

**ISSUED:** Nov. 03, 2014

**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. 47-2, 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   |
|-------------|-------------------|---------------|
| SA141006C28 | Original release. | Nov. 03, 2014 |



#### 1. CERTIFICATION

**PRODUCT:** TI ZigBee communication module

MODEL: SGCM-W50

**BRAND**: Tatung

**APPLICANT:** Delta Networks, Inc.

**TESTED:** Oct. 16 ~ Oct. 28, 2014

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: FCC Part 2 (Section 2.1091)

KDB 447498 D03

**IEEE C95.1** 

The above equipment (model: SGCM-W50) 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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APPROVED BY:

Ken Liu / Senior Manager

, DATE:

Nov. 03, 2014

Nov. 03, 2014



### 2. RF EXPOSURE

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

| FREQUENCY<br>RANGE (MHz)                              |  | MAGNETIC FIELD<br>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

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

where

Pd = power density in mW/cm<sup>2</sup>

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

| MAX POWER | ANTENNA    | DISTANCE | POWER DENSITY (mW/cm²) | LIMIT    |
|-----------|------------|----------|------------------------|----------|
| (dBm)     | GAIN (dBi) | (cm)     |                        | (mW/cm²) |
| 23.71     | 2.76       | 20       | 0.088                  | 1        |

---END---