

# RF EXPOSURE REPORT

**REPORT NO.:** SA121128C11  
**MODEL NO.:** DGW101  
**FCC ID:** RD2DW101001  
**RECEIVED:** Nov. 16, 2012  
**TESTED:** Nov. 16 ~ Dec. 04, 2012  
**ISSUED:** Dec. 06, 2012

**APPLICANT:** DXG Technology Corp.

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## TABLE OF CONTENTS

|   |   |
|---|---|
| RELEASE CONTROL RECORD.....                             | 3 |
| 1. CERTIFICATION .....                                  | 4 |
| 2. RF EXPOSURE .....                                    | 5 |
| 2.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE) ..... | 5 |
| 2.2 MPE CALCULATION FORMULA .....                       | 5 |
| 2.3 CLASSIFICATION .....                                | 5 |
| 2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER ..... | 5 |



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## RELEASE CONTROL RECORD

| ISSUE NO.   | REASON FOR CHANGE | DATE ISSUED   |
|-------------|-------------------|---------------|
| SA121128C11 | Original release  | Dec. 06, 2012 |

## 1. CERTIFICATION

**PRODUCT:** RF MODULE  
**MODEL NO.:** DGW101  
**BRAND:** DXG  
**APPLICANT:** DXG Technology Corp.  
**TESTED:** Nov. 16 ~ Dec. 04, 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: DGW101) 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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Maggie Wu / Specialist

**APPROVED BY :** Ken Liu , **DATE :** Dec. 06, 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 <sup>2</sup> ) | 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

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = 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

| FREQUENCY BAND (MHz) | MAX POWER (dBm) | ANTENNA GAIN (dBi) | DISTANCE (cm) | POWER DENSITY (mW/cm <sup>2</sup> ) | LIMIT (W/m <sup>2</sup> ) |
|----------------------|-----------------|--------------------|---------------|-------------------------------------|---------------------------|
| 2412-2462            | 21.90           | 2.27               | 20            | 0.0520                              | 1                         |