RF EXPOSURE REPORT

REPORT NO.: SA140128D01

MODEL NO.: DDP-A020003 XX, SOL-GW-M1-N4Z, EOE90010583,

FCC ID: H79DDP-A020003A

RECEIVED: Jan. 17, 2014

TESTED: Jan. 17 ~ Feb. 18, 2014

ISSUED: Mar. 28, 2014

APPLICANT: Delta Electronics Incorporated

ADDRESS: 3, TUNG YUAN ROAD, CHUNGLI INDUSTRIAL ZONE TAOYUAN COUNTY, 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.

This report should not be used by the client to claim product certification, approval, or endorsement by TAF or any government agencies.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA140128D01	Original release	Mar. 28, 2014

1. CERTIFICATION

PRODUCT:	DATA COLLECTOR
MODEL NO.:	DDP-A020003 XX, SOL-GW-M1-N4Z, EOE90010583, (X can be any alphanumeric character or blank)
APPLICANT:	Delta Electronics Incorporated
TESTED:	Jan. 17 ~ Feb. 18, 2014
TEST ITEM:	ENGINEERING SAMPLE
STANDARDS:	FCC Part 2 (Section 2.1091) FCC OET Bulletin 65, Supplement C (01-01) IEEE C95.1

The above equipment (model: DDP-A020003 A) 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.

PREPARED BY : Annie Chang , **DATE:** Mar. 28, 2014

(Annie Chang / Supervisor)

APPROVED BY : Rex. Lai , **DATE:** Mar. 28, 2014

(Rex Lai / Assistant Manager)

2. RF EXPOSURE LIMIT

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				
300-1500	…	…	F/1500	30
1500-100,000	…	…	1.0	30

F = Frequency in MHz

3. 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

4. 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**.

5. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm^2)	LIMIT (mW/cm^2)
2412 ~ 2462	20.08	3.8	20	0.0486	1.00
2480	7.58	2.0	20	0.0321	1.00

CONCULSION:

Both of the modules can transmit simultaneously, the formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 + ……etc**. < 1**

CPD = Calculation power density

LPD = Limit of power density

1. WLAN + Zigbee =0.0486/1 + 0.0321/1 **= 0.0807**

Therefore, the maximum calculation of this situation is 0.0807, which is less than the "1" limit.

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