

# RF EXPOSURE REPORT

**REPORT NO.:** SA111012E11

**MODEL NO.:** P.DG A4001N A-000-1A1-AX

**FCC ID:** Z5LPDGA4001N

**RECEIVED:** Oct. 18, 2011

**TESTED:** Oct. 25, 2011

**ISSUED:** Nov. 11, 2011

**APPLICANT:** ADB Broadband S.p.A.

**ADDRESS:** Viale Sarca 222, 20126 Milano, Italy

**ISSUED BY:** Bureau Veritas Consumer Products Services (H.K.)  
Ltd., Taoyuan Branch Hsin Chu Laboratory

**LAB ADDRESS:** No. 81-1, Lu Liao Keng, 9th Ling, Wu Lung Tsuen,  
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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA111012E11	Original release	Nov. 11, 2011

## 1.CERTIFICATION

**PRODUCT:** ADSL2+ WiFi Router

**BRAND NAME:** ADB


**MODEL NO.:** P.DG A4001N A-000-1A1-AX

**TEST SAMPLE:** ENGINEERING SAMPLE

**APPLICANT:** ADB Broadband S.p.A.

**STANDARDS:** FCC Part 2 (Section 2.1091)  
FCC OET Bulletin 65, Supplement C (01-01)  
IEEE C95.1

The above equipment (Model: P.DG A4001N A-000-1A1-AX) 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 :** , **DATE:** Nov. 11, 2011  
( Lori Chung, Specialist )

**APPROVED BY :** , **DATE:** Nov. 11, 2011  
( May Chen, Deputy 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 <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

### 3.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

### 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)	CONDUCTED POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/ cm <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
2412-2462	351.6	2	20	0.111	1.00

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