



# RF EXPOSURE REPORT

**REPORT NO.:** SA120511C23

**MODEL NO.:** PGZNG1, C24-HUB2, ASG1000

**FCC ID:** PY312100192

**RECEIVED:** May 11, 2012

**TESTED:** May 18, 2012

**ISSUED:** June 27, 2012

**APPLICANT:** Netgear Incorporated

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United States 95134

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

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA120511C23	Original release	June 27, 2012



## 1. CERTIFICATION

**PRODUCT:** Home Security  
**BRAND NAME:** ADT, DSC, NTGR, G2i  
**MODEL NO.:** PGZNG1, C24-HUB2, ASG1000  
**TEST SAMPLE:** ENGINEERING SAMPLE  
**APPLICANT:** Netgear Incorporated  
**TESTED DATE:** May 18, 2012  
**STANDARDS:** FCC Part 2 (Section 2.1091)  
FCC OET Bulletin 65, Supplement C (01-01)  
IEEE C95.1

The above equipment (Model: PGZNG1) 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 :** Phoenix Huang , **DATE:** June 27, 2012  
( Phoenix Huang, Specialist )

**APPROVED BY :** May Chen , **DATE:** June 27, 2012  
( 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)
<b>LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE</b>				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

### 3. 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

### 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

There are Zwave technology and WLAN technology used for the EUT.

This report was only recorded at the WLAN technology.

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	734.613	6.94	20	0.72242	1.00

Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2]$

Effective Legacy Gain (dBi) = 6.94

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