



# RF EXPOSURE REPORT

**REPORT NO.:** SA121019E04A

**MODEL NO.:** CGNV, CGNVXXXXXXXX (where X may be any alphanumeric character or blank)

**FCC ID:** U4P-CGNV1A

**RECEIVED:** Oct. 19, 2012

**TESTED:** Nov. 13, 2012

**ISSUED:** Sep. 04, 2013

**APPLICANT:** HitronTechnologies

**ADDRESS:** NO. 1-8, LISING 1ST RD., HSINCHU SCIENCE PARK, HSINCHU, 300, TAIWAN.

**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, Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan, R.O.C.

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA121019E04A	Original release	Sep. 04, 2013



## 1. CERTIFICATION

**PRODUCT:** Wirelesss Cable Gateway

**BRAND NAME:** hitron

**MODEL NO.:** CGNV, CGNVXXXXXXXX (where X may be any alphanumeric character or blank)


**TEST SAMPLE:** R&D SAMPLE

**APPLICANT:** HitronTechnologies

**TESTED:** Nov. 13, 2012

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

The above equipment (Model: CGNV) 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:** Sep. 04, 2013  
( Elsie Hsu, Specialist )

**APPROVED BY :**  , **DATE:** Sep. 04, 2013  
( May Chen, 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

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

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. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Brand	Model	Antenna Type	Gain (Net dBi)	Connector type	Frequency range (MHz to MHz)
Chain (0)	Airgain	M2445J-T2-100C	PCB	4.5	ipex	2400-2490
Chain (1)	Airgain	M2445J-T2-190C	PCB	4.5	ipex	2400-2490
Chain (2)	Airgain	N2420DS-T-G100C	PCB	3.1	ipex	2400-2490

## 6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
2412-2462	957.559	4.5	20	0.53690	1.00

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