

RF EXPOSURE REPORT

REPORT NO.: SA121019E04A

MODEL NO.: CGNV, CGNVXXXXXXX (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

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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
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 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

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

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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 ²)	LIMIT (mW/cm ²)
2412-2462	957.559	4.5	20	0.53690	1.00

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