

RF EXPOSURE REPORT

REPORT NO.: SA140620E01

MODEL NO.: AW-CU288

FCC ID: TLZ-CU288

RECEIVED: June 20, 2014

TESTED: July 10, 2014

ISSUED: Aug. 07, 2014

APPLICANT: AzureWave Technologies, Inc.

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ISSUED BY: Bureau Veritas Consumer Products Services (H.K.)
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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA140620E01	Original release	Aug. 07, 2014

1. CERTIFICATION

PRODUCT: IEEE 802.11b/g/n Smart Energy Module
BRAND NAME: AzureWave
MODEL NO.: AW-CU288
TEST SAMPLE: ENGINEERING SAMPLE
APPLICANT: AzureWave Technologies, Inc.
TESTED DATE: July 10, 2014
STANDARDS: FCC Part 2 (Section 2.1091)
FCC OET Bulletin 65, Supplement C (01-01)
IEEE C95.1

The above equipment (Model: AW-CU288) 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:** Aug. 07, 2014
(Elsie Hsu, Specialist)

APPROVED BY :  , **DATE:** Aug. 07, 2014
(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

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

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:

No.	Antenna	Brand	Model	Gain (dBi) include cable loss	Frequency range (MHz to MHz)	Antenna Type	Connector Type	Cable Length (mm)
1	Internal	AzureWave	ANT3216LL00 R2400A	3.17	2400-2500	CHIP	NA	NA
2	External	NanoBlue	NanoBlue-IP04	2	2400-2500	Monopole	I-PEX	100
3	External	MAG.LAYERS	MS-A4008-25G C1-A1	2.98	2400-2500	PIFA	I-PEX	150
4	External	MAG.LAYERS	EDA_1313_2G 4C1-A16	2.03	2400-2500	Dipole	I-PEX	150

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)
2412-2472	176.604	3.17	20	0.07290	1.00

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