

RF EXPOSURE REPORT

REPORT NO.: SA111104C25

MODEL NO.: AW-NU203

FCC ID: MDZAZWAR9271-WL

RECEIVED: Nov. 04, 2011

TESTED: Nov. 08 ~ Nov. 10, 2011

ISSUED: Nov. 14, 2011

APPLICANT: Amtran Technology Co Ltd

ADDRESS: 17F, No. 268, Lien Chen Rd. Chung Ho City,

Taipei County 235 Taiwan.

ISSUED BY: Bureau Veritas Consumer Products Services

(H.K.) Ltd., Taoyuan Branch

LAB ADDRESS: No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist.,

New Taipei City, Taiwan (R.O.C)

TEST LOCATION: No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei

Shan Hsiang, Taoyuan Hsien 333, Taiwan,

R.O.C.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED	
Original release	NA	Nov. 14, 2011	

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1. CERTIFICATION

PRODUCT: IEEE 802.11 b/g/n USB wireless module 16 digits MAC for Amtran

MODEL: AW-NU203
BRAND: AmTRAN

APPLICANT: Amtran Technology Co Ltd

TESTED: Nov. 08 ~ Nov. 10, 2011

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: FCC Part 2 (Section 2.1091)

FCC OET Bulletin 65, Supplement C (01-01)

IEEE C95.1

The above equipment (Model: AW-NU203) 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

Andrea Hsia / Specialist

APPROVED BY: Nov. 14, 2011

Gary Chang / Technical Manager



2. RF EXPOSURE

2.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm²)	AVERAGE TIME (minutes)					
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE									
300-1500			F/1500	30					
1500-100,000			1.0	30					

F = Frequency in MHz

2.2 MPE CALCULATION FORMULA

Pd = (Pout*G) / (4*pi*r2)

where

Pd = power density in mW/cm2

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

2.3 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**.

2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MODULATION MODE	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm²)	LIMIT (mW/cm²)
	802.11b	20.3	3.97	20	0.053	1
2412-2462	802.11g	25.6	3.97	20	0.180	1
2412-2402	802.11n (20MHz)	25.3	3.97	20	0.168	1
	802.11n (40MHz)	22.3	3.97	20	0.084	1