

# RF EXPOSURE REPORT

**REPORT NO.:** SA990825C12

**MODEL NO.:** WIXS-168

4M-CPE3000-PRO-1D-2.3

FCC ID: MXF-WIXS-168

APPLICANT: Gemtek Technology Co., Ltd.

ADDRESS: No. 15-1, Zhonghua Rd, Hsinchu Industrial Park,

Hsinchu County, Taiwan, R.O.C. 303

**ISSUED BY:** Bureau Veritas Consumer Product s Services

(H.K.) Ltd., Taoyuan Branch

LAB ADDRESS: No. 47, 14th Ling, Chia Pau T suen, Lin Kou

Hsiang, Taipei Hsien 244, Taiwan, R.O.C.

**TEST LOCATION:** No. 19, Hwa Y a 2nd Rd, W en Hwa Tsuen, Kwei

Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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## **RELEASE CONTROL RECORD**

ISSUE NO.	O. REASON FOR CHANGE	
Original release	NA	Jul. 08, 2011

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#### 1. CERTIFICATION

PRODUCT: WiMAX Outdoor CPE

MODEL: WIXS-168, 4M-CPE3000-PRO-1D-2.3

**BRAND:** Gemtek, Alvarion

**APPLICANT:** Gemtek Technology Co., Ltd.

**TESTED:** Jul. 04 ~ Jul. 06, 2011

**TEST SAMPLE:** ENGINEERING SAMPLE

**TEST STANDARDS: FCC Part 2 (Section 2.1091)** 

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

**IEEE C95.1** 

The above equipment (Model: WIXS-168) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch,** and found compliance with the requirement of the above st andards. The test record, dat a evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurement s of the sa mple's EMC characteristics under the conditions specified in this report.

PREPARED BY: , DATE: Jul. 08, 2011

Rennie Ward / Supervisor

APPROVED BY : ( ) , DATE : Jul. 08, 2011

Gary Chang / Assistant 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)		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

MAX POWER (dBm)	MAXIMUM ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/ cm²)	LIMIT (mW/cm²)
20.44	13.2	20	0.460	1.00