



RF EXPOSURE REPORT

REPORT NO.: RF120325C01

MODEL NO.: WIXB-188, 4M-CPE6000-PRO-1D-1V-3.x

FCC ID: MXF-WIXB-188

RECEIVED: Mar. 25, 2012

TESTED: Apr. 14 ~ May 10, 2012

ISSUED: May 11, 2012

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 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
SA120325C01	Original release	May 11, 2012



1. CERTIFICATION

PRODUCT: WiMAX Outdoor CPE
MODEL: WIXB-188, 4M-CPE6000-PRO-1D-1V-3.x
BRAND: Gemtek, Alvarion
APPLICANT: Gemtek Technology Co., Ltd.
TESTED: Apr. 14 ~ May 10, 2012
TEST SAMPLE: ENGINEERING SAMPLE
STANDARDS: **FCC Guidelines for Human Exposure**
IEEE C95.1

The above equipment (Model: WIXB-188) 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:** May 11, 2012
Petlie Chen / Specialist

APPROVED BY :  , **DATE:** May 11, 2012
Gary Chang / Technical 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 60cm away from the body of the user. Warning statement to the user for keeping at least 60cm or more separation distance with the antenna should be included in users manual.



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5. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FOR 5.0MHz CHANNEL BANDWIDTH:

MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
20.792	15	60	0.084	1.00

FOR 7.0MHz CHANNEL BANDWIDTH:

MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
22.326	15	60	0.119	1.00

FOR 10MHz CHANNEL BANDWIDTH:

MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
23.274	15	60	0.149	1.00