RF EXPOSURE REPORT

Applicant	Axesstel Inc.
Address	6815 Flanders Drive, Suite 210 ,San Diego, CA 92121

Manufacturer or Supplier	Eastern Communications Company Limited
Address:	No.66, Building A, Eastcom City, Eastcom Road, Binjing Hi-tech Industry Development Zone, Hang Zhou 310053 China
Product	CDMA 1x EV-DO rev.B Router
Brand Name	AXESSTEL Inc.
Model	MV640VR
Additional Model & Model Difference	MV640, MV640R, MV640V
Date of tests	May 16, 2013 ~ May 27, 2013

☒ **FCC Part 2 (Section 2.1091)**

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

☒ **IEEE C95.1**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Reviewed by Glyn He Supervisor / EMC Department	Approved by Sam Tung Manager / EMC Department
	 Date: May 27, 2013

Table of Contents

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS130516N019	Original release	May 27, 2013

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1. CERTIFICATION

PRODUCT:	CDMA 1x EV-DO rev.B Router
BRAND NAME:	AXESSTEL Inc.
MODEL NO.:	MV640VR
TEST SAMPLE:	ENGINEERING SAMPLE
APPLICANT:	Axesstel Inc.
TESTED DATE:	May 27, 2013
STANDARDS:	FCC Part 2 (Section 2.1091)
	FCC OET Bulletin 65, Supplement C (01-01)
	IEEE C95.1

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

$Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm^2

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

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	Peak Gain (dBi)	Antenna Type
Chain 0	3.5	PIFA
Chain 1	3.5	PIFA

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX CONDUCTED POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm^2)	LIMIT (mW/cm^2)
2412-2462	22.68	3.5	20	0.08255	1.00

DEVICE	FREQUENCY (MHz)	MAX EIRP POWER (dBm)	DISTANCE (cm)	POWER DENSITY (mW/ cm^2)	LIMIT (mW/cm^2)
3G Module	824.7	27.81	20	0.12015	0.55

This product can operate within 3G Module which has maximum of 27.81 EIRP output power.

CONCLUSION:

Both of the WLAN and plug-in device (3G) can transmit simultaneously, the formula of calculated the MPE is:

$CPD_1 / LPD_1 + CPD_2 / LPD_2 + ……etc. < 1$

CPD = Calculation power density

LPD = Limit of power density

Therefore, the worst-case situation is 0.08255 / 1 + 0.12015 / 0.55= 0.301, which is less than “1”. This confirmed that the device comply with FCC 1.1310 MPE limit.

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