

RF EXPOSURE REPORT

Product: CDMA 1X Module

Model Name: MC2261

FCC ID: Q78-ZTEMC2261

Applicant: ZTE Corporation

Address: ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park,
Nanshan District, Shenzhen, Guangdong, P.R.China

Manufacturer: ZTE Corporation

Address: ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park,
Nanshan District, Shenzhen, Guangdong, P.R.China

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Report No.: SA160622W006

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Test Report No.: SA160622W006

TABLE OF CONTENTS

RF EXPOSURE REPORT	1
RELEASE CONTROL RECORD	3
1 CERTIFICATION	4
2 GENERAL INFORMATION	5
2.1 GENERAL DESCRIPTION OF EUT	5
3 RF EXPOSURE	6
3.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)	6
3.2 MPE CALCULATION FORMULA.....	6
3.3 CLASSIFICATION	6
3.4 CONDUCTED POWER	7
3.5 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER.....	8



Test Report No.: SA160622W006

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA160622W006	Original release	July 06, 2016



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1 CERTIFICATION

PRODUCT: CDMA 1X Module
BRAND NAME: ZTE
MODEL NAME: MC2261
APPLICANT: ZTE Corporation
TESTED: Jun. 23, 2016 ~ July 05, 2016
TEST SAMPLE: Production unit
STANDARDS: **FCC Part 2 (Section 2.1091)**
FCC OET Bulletin 65, Supplement C (01-01)
IEEE C95.1

The above equipment has been tested by **Bureau Veritas Shenzhen Co., Ltd. Dongguan 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:** July 06, 2016
(Amyee Qian / Engineer)

APPROVED BY :  , **DATE:** July 06, 2016
(William Chung / Manager)

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	CDMA 1X Module	
MODEL NAME	MC2261	
NOMINAL VOLTAGE	3.8Vdc	
OPERATING TEMPERATURE RANGE	-30 ~ 75°C	
MODULATION TYPE	CDMA BC 0	QPSK
OPERATING FREQUENCY	GSM/EDGE	824.2MHz ~ 849MHz (FOR CDMA BC 0) 1850.2MHz ~ 1909.8MHz (FOR CDMA BC 1)
ANTENNA TYPE	Swivel Antenna	
ANTENNA GAIN	3.5dBi gain For CDMA BC 0 4.8dBi gain For CDMA BC 1	
HW Version	MC2261MD_B	
SW Version	MC2261_C_MM9B8209_R01	
I/O PORTS	Refer to user's manual	

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

3 RF EXPOSURE

3.1 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

3.2 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

3.3 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 **Module Approval**.



3.4 CONDUCTED POWER

Band	CDMA2000 BC0		
Channel	1013	384	777
Frequency (MHz)	824.7	836.52	848.31
RC1+SO55	24.22	24.27	24.31
RC3+SO55	24.19	24.25	24.29
RC3+SO32(FCH)	24.26	24.17	24.20
RC3+SO32(SCH)	24.15	24.16	24.18

Band	CDMA2000 BC1		
Channel	25	600	1175
Frequency (MHz)	1851.25	1880	1908.75
RC1+SO55	23.31	23.22	23.17
RC3+SO55	23.29	23.19	23.15
RC3+SO32(FCH)	23.27	23.18	23.15
RC3+SO32(SCH)	23.25	23.17	23.14

3.5 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

CDMA

Band	Frequency (MHz)	Antenna Gain (dBi)	Conducted Time Average Power (dBm)	E.I.R.P Power (mW)	Power Density (mW/cm ²)	Llimit (mW/cm ²)	PASS / FAIL
CDMA BC 0	848.31	3.5	24.31	603.949	0.120	0.57	PASS
CDMA BC 1	1851.25	4.8	23.31	647.143	0.129	1.00	PASS