

RF EXPOSURE REPORT

Product: HSPA LGA Module

Model Name: MF206A

FCC ID: Q78-ZTEMF206A

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.: SA160504W005

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Test Date: May 05, 2016 ~ May 18, 2016

Issued Date: May 19, 2016

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA160504W005	Original release	May 19, 2016



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1 CERTIFICATION

PRODUCT: HSPA LGA Module
BRAND NAME: ZTE
MODEL NAME: MF206A
APPLICANT: ZTE Corporation
TESTED: May 05, 2016 ~ May 18, 2016
TEST SAMPLE: Identical Prototype
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:** May 19, 2016
(Amyee Qian / Engineer)

APPROVED BY : , **DATE:** May 19, 2016
(William Chung / Manager)

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	HSPA LGA Module	
MODEL NAME	MF206A	
NOMINAL VOLTAGE	3.8Vdc (Battery)	
OPERATING TEMPERATURE RANGE	-30 ~ 75°C	
MODULATION TYPE	GSM/EDGE	GMSK, 8PSK
	WCDMA	BPSK/QPSK
OPERATING FREQUENCY	GSM/EDGE	824.2MHz ~ 848.8MHz (FOR GSM 850) 1850.2MHz ~ 1909.8MHz (FOR PCS 1900)
	WCDMA	1852.4MHz ~ 1907.6MHz (FOR WCDMA 1900) 826.4MHz ~ 846.6MHz (FOR WCDMA 850)
ANTENNA TYPE	Fixed Internal Antenna	
ANTENNA GAIN	3dBi gain For GSM 850 / WCDMA 850 5dBi gain For PCS 1900 / WCDMA 1900	
HW Version	MF206A_MB_B	
SW Version	BD_ATTMF206AV1.0.0B13	
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	GSM850		
Channel	128	190	251
Frequency (MHz)	824.2	836.6	848.8
GPRS 8	32.97	33.16	33.12
GPRS 10	30.57	30.60	30.51
EDGE 8 (MCS9)	26.89	26.80	26.70
EDGE 10 (MCS9)	24.83	24.73	24.67
EDGE 11 (MCS9)	22.88	22.77	22.73
EDGE 12 (MCS9)	26.02	26.20	26.10

Band	GSM1900		
Channel	512	661	810
Frequency (MHz)	1850.2	1880.0	1909.8
GPRS 8	30.41	30.18	29.85
GPRS 10	28.20	28.03	27.76
EDGE 8 (MCS9)	26.27	26.10	25.85
EDGE 10 (MCS9)	24.25	24.12	23.88
EDGE 11 (MCS9)	22.37	22.24	22.01
EDGE 12 (MCS9)	25.70	25.54	25.79

Band	WCDMA II		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
RMC 12.2K	23.58	23.65	23.25
HSPA			
HSDPA Subtest-1	23.36	23.55	23.07
HSDPA Subtest-2	23.45	23.40	23.15
HSDPA Subtest-3	23.46	23.50	23.36
HSDPA Subtest-4	23.45	23.58	23.36

Band	WCDMA V		
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2K	23.06	22.84	23.22
HSPA			
HSDPA Subtest-1	22.78	22.56	22.88
HSDPA Subtest-2	22.84	22.60	23.01
HSDPA Subtest-3	22.97	22.80	23.05
HSDPA Subtest-4	22.96	22.86	23.12

3.5 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

GSM

Band	Frequency (MHz)	Operating Mode	Antenna Gain (dBi)	Conducted Time Average Power (dBm)	E.I.R.P Power (mW)/8	Power Density (mW/cm ²)	limit (mW/cm ²)	PASS / FAIL
GSM850	836.6	GPRS12	3	33.16	516.309	0.103	2.60	PASS
PCS1900	1850.2	GPRS12	5	30.41	434.420	0.086	1.00	PASS

WCDMA

Band	Frequency (MHz)	Operating Mode	Antenna Gain (dBi)	Conducted Time Average Power (dBm)	E.I.R.P Power (mW)	Power Density (mW/cm ²)	limit (mW/cm ²)	PASS / FAIL
WCDMA V	846.6	GPRS12	3	23.22	418.794	0.083	2.62	PASS
WCDMA II	1880.0	GPRS12	5	23.65	732.825	0.146	1.00	PASS