

MF332 Specification



1. Overview

The ZTE MF332 HSDPA/EDGE Wireless Data Card is a type of multi-mode, 3G wireless data card, applicable to HSDPA/ WCDMA/ EDGE/ GPRS/ GSM network. With PCMCIA interface to connect to portable PC, it integrates functions of modem and mobile phone, and combines mobile communication with the Internet perfectly. Via HSDPA/ WCDMA/ EDGE/ GPRS /GSM mobile network, it carries out data, audio and SMS services, helping you break away from limitation of time and zone, and communicate wirelessly anytime and anywhere.

For ZTE MF332, the RF, BB and PM module is the core of system, they help MF332 realize functions for supporting HSDPA/ WCDMA/ EDGE/ GPRS /GSM. The RF module include HSDPA/ WCDMA/ EDGE/ GPRS /GSM sub-module which using for transceiver and receiver for different frequency. The BB module for baseband handling and PM for power, they also provides interfaces to external facilities: voice function, SIM card and PCMCIA port etc.

With BB module on MB, MF332 realizes system functions for support 3G standard and also for 2G standard protocol. The RF module independently finish transmit and receive commission among the system performance index and the PB on MB realizes power and other externa For voice service, it is completed by software testing in BB module and ringing circuit, voice conversion circuit and voice amplification circuit. The software in BB module realizes service flow.

The single board provides interface to PC and also provides signals of RSSI interface.

The RF transmit index of single board is mainly realized by RF module and the functional index is jointly realized by external circuit interface.

2. Technical specifications

	Section	Specification	Remarks
H/W	Interface Type	PCMCIA Type II	
	Common Air Interface	HSDPA/UMTS/EDGE/GPRS/GSM	
	Frequency	HSDPA/WCDMA 2100/850MHz, GSM/GPRS/EDGE 900/1800/1900MHz	
	Channel Spacing	200 KHz	
	Transmission (Max. Data Rate)	(E)GPRS CLASS10 HSDPA DL3.6Mbps UMTS DL384/UL384 Kbps EDGE DL236.8Kbps	
	Voice Capability	Support	
	Dimensions (W X D X H)	120.8mm*54.8mm*12mm	
	Weight	about 55g	
	Headset Jack	Support	
	USIM & SIM	Support	
	LED	Two colour status LED	
	Antenna	Main Antenna(for all Frequency) : >Shape : Internal >Gain : 0 dBi >Output Impedance : 50 ohm Sub Antenna(only for umts 850)>Shape : Internal >Gain : 0 dBi >Output Impedance : 50 ohm	
	Supply Voltage	3.3V	
	Temperature - Storage Temperature	-20 ~ +65	

	- Operation Temperature	0 ~ +55	
S/W	Data transmission		
	>Authentication	>Support PAP CHAP	
	>PDP type	>PPP, IP	
	>Class	>Class 10	
	>Multislot capability	>GPRS Class B	
	>IP Version	>IPV4	
	SMS	SMS MT & MO	
	Concatenated SMS	Support	
	Voice call	Voice call MO/MT	
	Voice codec	HR, FR, EFR, AMR	
	E911	Support	
	STK	Support SMS MT & MO	
	AT Commands	AT Interface 3GPP TS27.007 and extended AT	
	Call records	Support	
	Phonebook	Support	
SMS box	Support		
Online Help	Support		
Language	English, Simplified Chinese etc.		
Product Support Tool	Support		
Tx Max Power	0.25W(UMTS),2W(GPRS/GSM/EDGE)		
Transmitter	Frequency Range	890~915MHz GSM/GPRS/EDGE 1710~1785MHz GSM/GPRS/EDGE 1850~1910MHz GSM/GPRS/EDGE 824 MHz~849 MHz HSDPA/UMTS 1920~1980MHz HSDPA/UMTS	
	Frequency Stability	0.1ppm	
	BandWidth	5MHz(UMTS),200KHz(GSM/GPRS/EDGE)	
	Type of Oscillation	PLL Synthesizer	
	Intermediate Frequency	Zero Intermediate Frequency	
	Modulation Method	QPSK(UMTS),GMSK(GSM/GPRS/EDGE),16QAM(HSDPA)	
	Common RF Impedance	50 ohm	
Receiver	Frequency Range	935~960MHz GSM/GPRS/EDGE 1805~1880MHz GSM/GPRS/EDGE 1930~1990MHz GSM/GPRS/EDGE 869 ~894 MHz HSDPA/UMTS 2110~2170MHz HSDPA/UMTS	
	BandWidth	5MHz(UMTS),200KHz(GSM/GPRS/EDGE)	
	Type of Oscillation	PLL Synthesizer	
	Channel Equalizer	Support	
	Rx diversity	Support	
	Intermediate Frequency	Zero Intermediate Frequency	
	Modulation Method	QPSK(UMTS),GMSK(GSM/GPRS/EDGE) , 16QAM	16QAM(HSDPA)
Common RF Impedance	50 ohm		
Etc.	Operating system	Windows 2000/XP	
	Notebook/laptop	IBM, DELL, Toshiba, Fujitsu, SONY, HP, Founder, Lenova, etc.	
	Accessories	>CD-ROM (Installation software) >Headset >User's Guide >Guarantee card	
	Certification & Approval	>IOT tests	