Product Spec List

Product Name：MF210

MF210 Spec List				
Item1	**Feature**	**Description**	**Compliance**	**Notes**
Artwork	Product Name	MF210		
	Dimensions	51mm*30mm*4.7mm		
	Weight	About 10g		
	Picture			
	Form Factor	PCI Express mini Card		
	USB Interface Type	Other		The PCIE contains USB interface
	User manual		Optional	
	Design guide	Hardware & Software Design guide	Optional	
Solution	Chipset supplier	Qualcomm		
Baseband	Processor	ARM 9		
	Processor speed (Apps)	MSM6290:High-performance ARM926EJ-STM running at up to 297.6 MHz for 7.2 Mbps HSDPA		
	USIM/SIM	Standard 6 PIN SIM card interface 3V SIM card and 1.8V SIM card	Yes	
	Memory(SDRAM/NAND)	32MByte/64MByte		Cost Related
	MICRO SD Card	No memory card support		
	USB Version	USB 2.0 HIGH SPEED		
	Interface	PCI EXPRESS MINI CARD		
	Active power consumption	TBD		Tested under the maximum transmit power
	Minimum power consumption（Standby）	TBD		
	Power supply	3.3V		
	LED control	Not support LED , have LED pins	No	
RF	Receive Diversity		Optional	Cost Related
	Main Antenna	External	No	Only External Antenna Interface Provided by ZTE
	Receive Diversity Antenna（GPS）	External	No	Only External Antenna Interface Provided by ZTE
	GSM Band	Default: GSM/GPRS/EDGE 1800MHz/900MHz Optional as below: GSM/GPRS/EDGE 850/900/1800/1900MHz		Cost Related
	UMTS Band	Default: WCDMA/HSDPA 2100MHz only Optional as below: WCDMA/HSDPA 2100/1900/850MHz		Cost Related
	CDMA 1X/EVDOBand	NA		
	RxDiv Band	2100/1900/850MHz	Optional	
	Max. transmitter power	UMTS2100/1900/850（900）: Power Class 3 (+24dBm +1/-3dBm) GSM/GPRS 850MHz/900MHz: Power Class 4 (+33dBm ± 2dBm) GSM/GPRS 1800MHz/1900MHz: Power Class 1 (+30dBm ± 2dBm) EDGE 850MHz/900MHz: Power Class E2 (+27dBm ±3dBm) EDGE 1800MHz/1900MHz: Power Class E2 (+26dBm -4/+3dBm)		
Technical Standard	GSM/EDGE/WCDMA	GSM CS: UL 9.6kbps/DL 9.6kbps GPRS: Multi-slot Class 10 EDGE: Multi-slot Class 12 WCDMA CS: UL 64kbps/DL 64kbps WCDMA PS: UL 384kbps/DL 384kbps		
	HSDPA/HSUPA	HSDPA: DL 7.2Mb/s(Category 8) HSUPA: UL 5.76Mb/s(Category 6)		
	CDMA 1X / EVDO	NA		
	3GPP Release	R99,R5,R6		

Item1	Feature		Description	Compliance	Notes
Technical Standard	OS	Window	Windows XP (SP2 and later)	Yes	
			Windows Vista (32bit)	Yes	
			Windows Vista (64bit)	Yes	
			Windows 7	Yes	
		WinCE	WinCE 5.0	No	
			WinCE 6.0	No	
		Android	1.6	Yes	
			2.0	Yes	
			2.1	Yes	
			2.2	Yes	
		Linux	kernel 2.6.20 and later	Optional	
	GPRS Class		Class B		
Application	RAS			Yes	
	GPS			Yes	
	NDIS			Optional	Only support Windows
	SMS			Yes	
	MMS			Optional	
	STK			Optional	
	USSD			Optional	
	Phonebook			Yes	
	NETWORK LOCK			Optional	
	SIM READER			No	
Approvals &Certification	CE			Yes	
	GCF			Yes	
	FCC			Yes	
	ROHS			Yes	
	PTCRB			Yes	
	CCC			Optional	
	Others			Optional	
Envionment	Operating Temperature		-25 to +60° C	Yes	
	Limited Temperature		-25 to +75℃	Yes	
	Storage Temperature		-40 to +85° C	Yes	
	Humidity		5%~ 95%	Yes	
Commercial Details	Engineering samples (yyyy/mm/dd)		2009-8-15	Yes	
	Final samples (yyyy/mm/dd)		2009-9-15	Yes	
	Product Market launch date (yyyy/mm/dd)		2009-10-1	Yes	

MF210 PIN Define

Pin	Standard PIN	ZTE PIN	Description	I/O	Remark
1	WAKE#	N/C			
2	3.3Vaux	VDD_3V3	3.3V supply		
3	COEX1	N/C			
4	GND	GND	Ground connection signal		
5	COEX2	N/C			
6	1.5V	N/C			
7	CLKREQ#	N/C			
8	UIM_PWR	USIM_POWER	USIM/RUIM VCC supply	Output	
9	GND	GND	Ground connection signal		
10	UIM_DATA	USIM_DATA	USIM/RUIM data	Output&Input	
11	REFCLK-	N/C		.	
12	UIM_CLK	USIM_CLK	USIM/RUIM clock	Output	
13	REFCLK+	N/C			
14	UIM_RESET	USIM_RESET	USIM/RUIM reset	Output	
15	GND	GND	Ground connection signal		
16	UIM_VPP	USIM_VPP	USIM card early signals out of date, do not connect if necessary		
17	Reserved(UIM_C8)	N/C			
18	GND	GND	Ground connection signal		
19	Reserved(UIM_C4)	N/C			
20	W_DISABLE#	W_DISABLE_N			可选，GPIO模拟
21	GND	GND	Ground connection signal		
22	PERST#	PERST_N	Hardware reset (Active Low)	Input	GPIO模拟
23	PERn0	N/C			
24	+3.3Vaux	VDD_3V3	Battery supply	Input	输入高电平不能超过最大值
25	PERp0	N/C			
26	GND	GND	Ground connection signal		
27	GND	GND	Ground connection signal		
28	+1.5V	N/C			
29	GND	GND	Ground connection signal		
30	SMB_CLK	N/C			
31	PETn0	N/C			
32	SMB_DATA	N/C			
33	PETp0	N/C			
34	GND	GND	Ground connection signal		
35	GND	GND	Ground connection signal		
36	USB_D-	USB_DM	USB data negative	Input/Output	
37	GND	GND	Ground connection signal		
38	USB_D+	USB_DP	USB data positive	Input/Output	
39	+3.3Vaux	VDD_3V3	Battery supply	Input	输入电压不能超过最大值
40	GND	GND	Ground connection signal		
41	+3.3Vaux	VDD_3V3	Battery supply	Input	输入电压不能超过最大值
42	LED_WWAN#	LED_WWAN_N	LED ZTE		该输出信号可选
43	GND	GND	Ground connection signal		
44	LED_WLAN#	N/C	LED LED		
45	Reserved	Reserved			
46	LED_WPAN#	N/C			
47	Reserved	Reserved			
48	+1.5V	N/C			
49	Reserved	Reserved			
50	GND	GND	Ground connection signal		
51	Reserved	Reserved			
52	+3.3Vaux	VDD_3V3	Battery supply	Input	