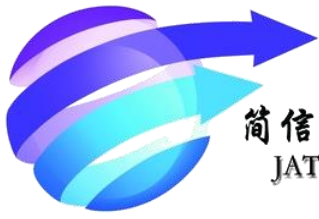


SoftSIM 4G MiFi Solution V2.0

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What is a MiFi device?

A small device which provides WiFi network access globally via LTE/WCDMA mobile network.

Chipset

The device is based on Qualcomm MDM9225 chipset

ID

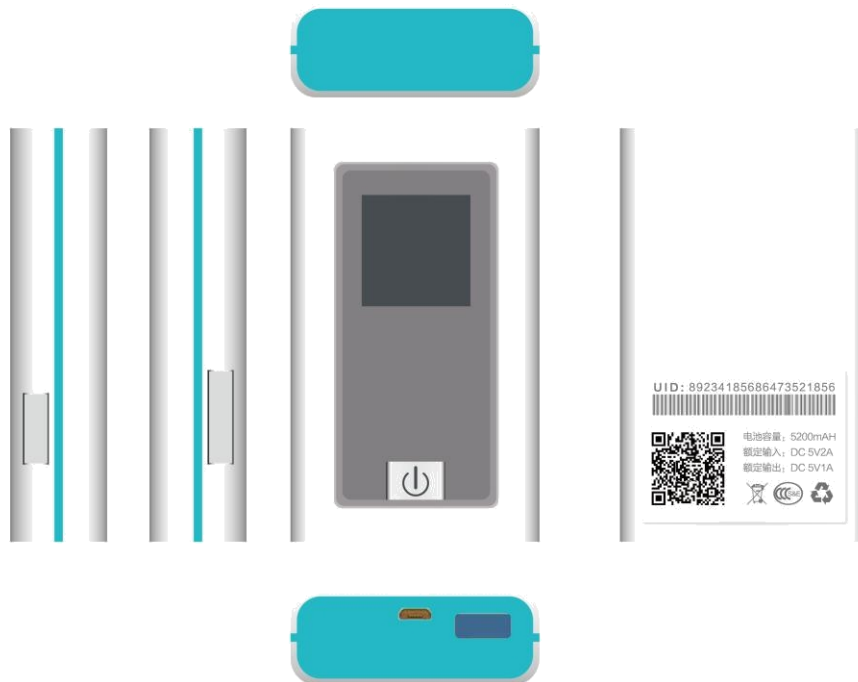
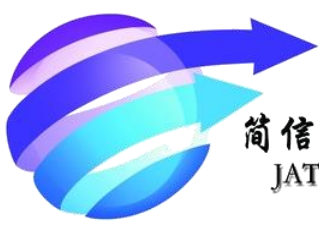


Diagram 1-device industrial design

Hardware

Table 1- hardware Component

CPU		Qualcomm MDM9225
FLASH		NAND+LPDDR2-S4B,4Gb+2Gb
RF		WTR1625L
PMIC		PM8019
WIFI		RTL8912ES(300mbps)
BAND	FDD-LTE	B1/2/3/5/7/8/17/20/28
	TDD-LTE	B38/40/41
	TD-SCDMA	B34/39
	WCDMA	B1/2/5/8
	GSM	Quad Band
	EVDO	Not support
RF	LTE TDD	3GPP/3GPP2 Release9, Category 3, up to 68M DL
	LTE FDD	3GPP/3GPP2 Release9, Category 3, up to 100M DL and 50Mbps UL
	DC-HSPA+	3GPP/3GPP2 Release8, Category 24, up to 42M DL and 5.76Mbps UL
	HSPA+	3GPP/3GPP2 Release7, Category 10, up to 14.4M DL and 5.76Mbps UL
	HSPA	3GPP/3GPP2 Release6, Category 7/8, up to 7.2M DL
	UMTS	3GPP Release4, up to 384Kbps DL and UL
	EDGE	3GPP Multislot class 12, up to 237Kbps
	GPRS	3GPP Multislot class 10, up to 85.6Kbps
	WIFI	802.11 b/g/n; 2.4G, 150Mbps
Battery		5200mAh
LCD		YES
Power key		YES
GPS		YES
Accelerometer		YES
SIM card		1*Soft-SIM/V-SIM(Embedded)
		1*Standard USIM slot(Built-in)
TF card		YES



RJ45	NO
USB	1*Micro USB(max input: 5V-2A)
	1*USB output prot(max output:5V-500mA,Power Bank)
Temperature	Work: -10~45°C
	Delivery: -20~75°C

Software

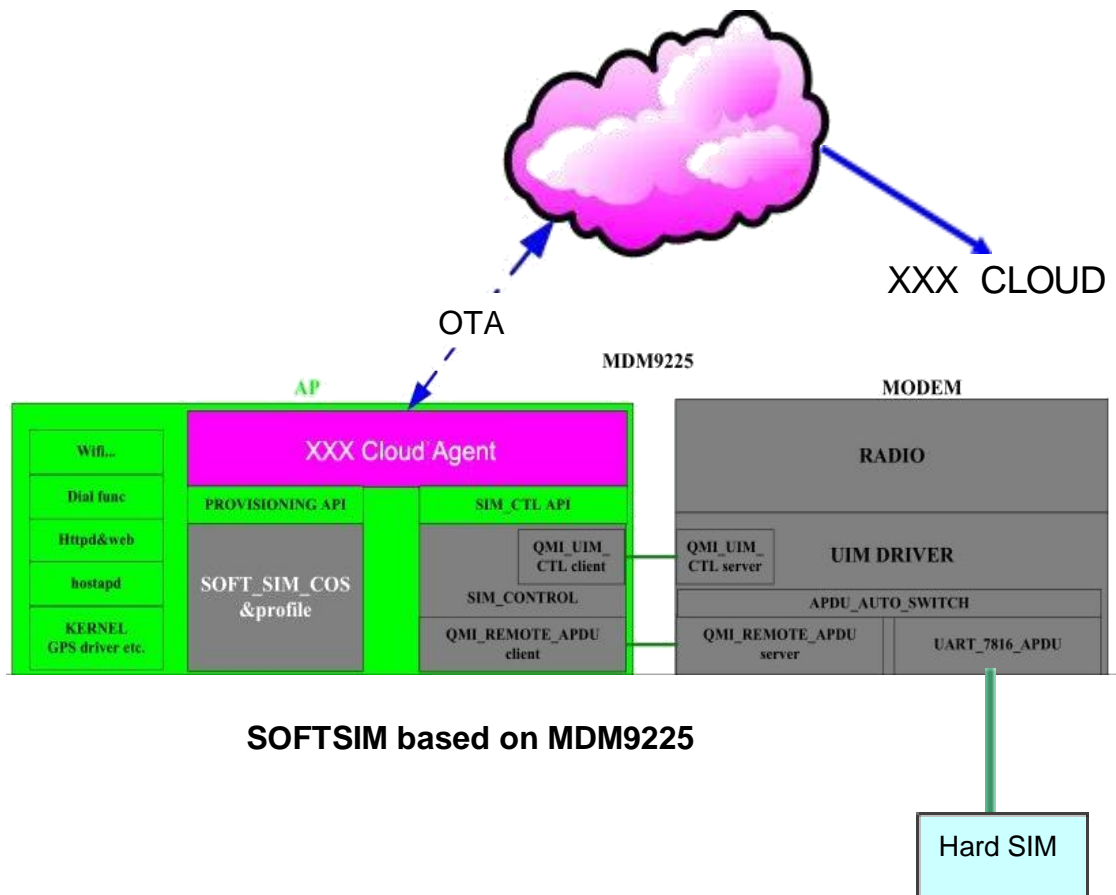
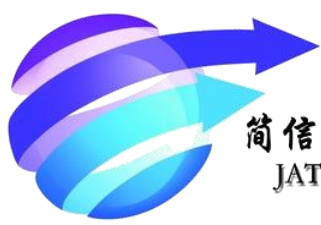


Diagram 2 – SoftSIM architecture

Table 2 – Software Component Implementation

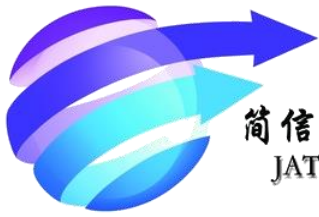
Component	Subcomponent	Description	Duty	Code
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Modem	Radio & uim driver etc.	Basic functions	Jaton	Binary
	QMI_UIM_CTL server	Receive card process cmd: power on/off/reset etc.	Jaton	Binary
	APDU_AUTO_SWITCH	Detect if hard SIM exist; switch apdu between hardsim and softsim	Jaton	Binary
	QMI_REMOTE_APDU server	Create Qmi server for pack/unpack APDU for softsim & mdm	Jaton	Binary
AP	SIM_CONTROL	Include QMI_UIM_CTL client&QMI_REMOTE_APDU client Control API is provided	Jaton	Binary
	SOFT_SIM_COS	SIM card software running as a process on AP. Performs SIM card functions(READ FILE, GSM AUTHENTICATE etc). Provisioning API is provided	Jaton	Binary
	XXX cloud Agent	Communicate with XXX cloud, control VIM function	Customer	
	Linux kernel	With all driver(gps/accelerometer etc.) included	Jaton	source code
	Httpd	User interface for the device. Allows to set WiFi parameters, configure IP addresses etc.	Jaton	source code
	Dial func	Set APN and establish PDP	Jaton	source code
	Other functions	Basic functions, see Table3	Jaton	source code

Table 3- basic software functions

WiFi Security	WPA-PSK, WPA2-PSK, WPA/WPA2 mixmode
WiFi Repeater	YES
OS	WIN7-10, WIN XP, VISTA, MAC OS



Language	Chinese/English
SIM	YES
Contact Book	YES
APN Setting	YES
WiFi Setting	YES
Device Settings	YES
Routing Settings	YES
Firewall Settings	YES
Smart Access	4G/3G/2G
IP Filter	YES
UPnP	YES
PIN Management	YES

Basic softSIM flow

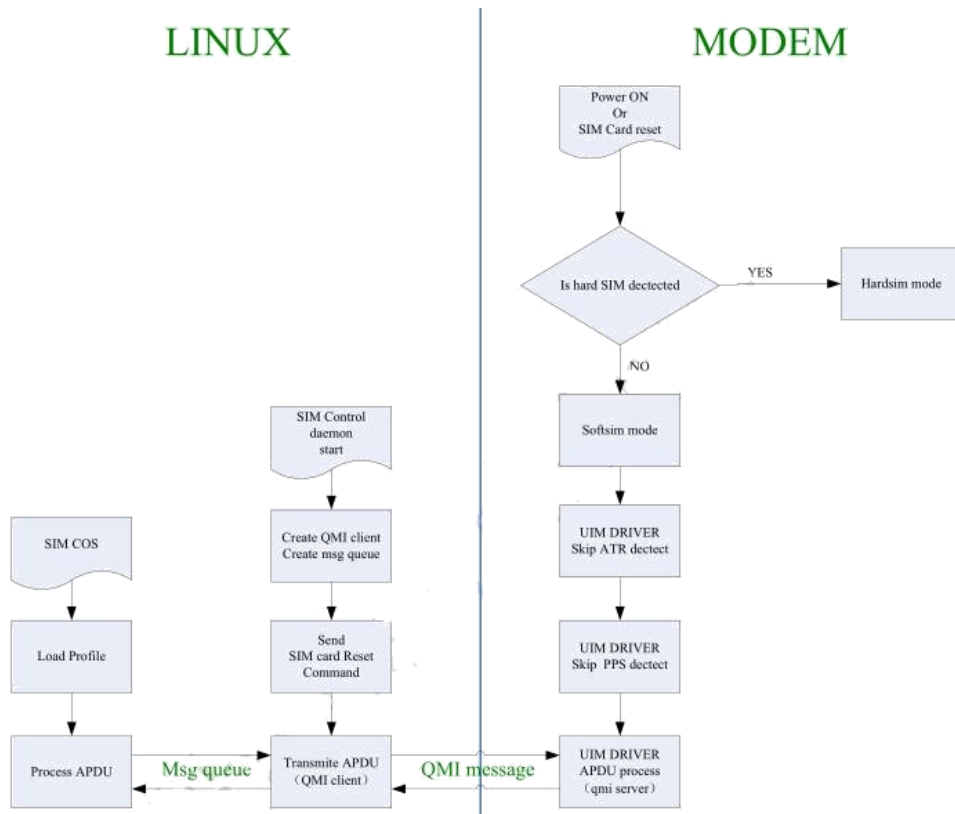


Diagram 3 – SoftSIM basic flow