M300 Series Industrial Modem

User Manual

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Chapter1

1 Prologue

This document is just suit for the following mode type; it helps you quickly to used M300 Modem function and resolves some common questions.

Туре	Marks
M300e	EDGE Modem
M300ev	EVDO Modem
M300d	HSDPA Modem
M300u	HSUPA Modem

1.1 Version

Version No.	Date	Description
1.00	2008-07-07	
1.01	2008-07-14	Add FAQ
1.02	2008-8-19	Add ZTE S/W operation

1.2 Referenced Documents

EL-M300 Series Modem Datasheet.pdf

1.3 Notice

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Chapter2

2 Introduction

2.1 Brief

With the development of wireless communication technologies, wireless products are being adopted in numerous industrial and civilian fields. E-Lins Technology Co., Limited is a leader of wireless communication equipment manufacturer releases the Wireless Modems, which support various frequency bands of EDGE/EVDO/HSDPA, and provide industrial terminal solutions for 2.75G/3G communication.

M300 series wireless modem adopts industrial level modules, specially designed for the complicated industrial environment which compatible with EMC, and will be your best choose of wireless communication.

2.2 Features

- Remote Data Monitor and Control
- Water, gas and oil flow metering
- AMR (automatic meter reading)
- Power station monitoring and control
- Remote POS (point of sale) terminals
- Traffic signals monitor and control
- Fleet management
- Power distribution network supervision
- Central heating system supervision
- Weather station data transmission
- Hydrologic data acquisition
- Vending machine
- Traffic info guidance
- Parking meter and Taxi Monitor
- Telecom equipment supervision (Mobile base station, microwave or optical relay station)

2.3 Benefits and Features

- Industrial design with intelligent software capabilities, making it a reliable cellular solution for data collection and transmission
- Plug-and-play design with easy-to-use software interface for easy integration
- Easily manage and control distributed remote devices over the air
- Built-in Watch Dog
- Real-time Clock (RTC)
- Remote Data Monitor and Control
- Reliable GSM/GPRS/CDMA/EVDO network connectivity, providing fast and cost-effective long-range wireless communication
- Always-On-Line
- Easy-to-use
- Industrial design with surge protection
- Local and remote configuration over the air , No need to build expensive fixed line network, saving cost substantially

2.4 Specification

M300e Radio Frequency

GSM Phase2/2+ GSM (EGSM) 900MHzDCS (GSM) 1800MHz or GSM850/900/1800/1900Mhz Output power: 2W (GSM900MHz Class 4) 1W (DCS1800MHz Class 1) M300ev Radio Frequency TIA/EIA-95B, CDMA2000 1X Band class 0: 800MHz Band class 1: (USPCS 1900MHz) 450Mhz is optional M300d/M300u Radio Frequency WCDMA/UMTS HSDPA Band: 2100Mhz or 2100/1900/850Mhz tri-band Support E-GPRS Class 10, GPRS class12 EDGE Quad-Band GSM 850/900/1800/1900 MHz Output power: Class 4 (2 W) for EGSM850 Class 4 (2 W) for EGSM900 Class 1 (1 W) for GSM1800 Class 1 (1 W) for GSM1900

Data transfer

SMS:

Point-to-point MO and MT SMS cell broadcast Text and PDU mode CSD up to 14.4 kbps, USSD, Non transparent mode, V.110 Fax: Group 3, Class 1, 2 Audio: Half Rate (HR) Full Rate (FR)

Enhanced Full Rate (EFR)

Interface

Plug in power supply Mini-SIM card reader Standard RS-232/485/TTL Standard serial Port (DB-9) SIM interface: 3V And1.8V

Shell:

Steel shell: good electromagnetic shield and, heat radiate performance

Environment

Ambient temperature: –20 centigrade degrees ~ +60 centigrade degrees Storage temperature: -50 centigrade degrees ~85 centigrade degrees Humidity: ≤90%

Electromagnetic Compatible

Electrostatic Discharge (ESD): 3 class Radiated, radio-frequency, electromagnetic field immunity test: 3 class

For details, please refer to the related Datasheet.

2.5 Application

- Remote Data Monitor and Control
- Water, gas and oil flow metering
- AMR (automatic meter reading)
- Power station monitoring and control
- Remote POS (point of sale) terminals
- Traffic signals monitor and control
- Fleet management
- Power distribution network supervision
- Central heating system supervision
- Weather station data transmission
- Hydrologic data acquisition

- Vending machine
- Traffic info guidance
- Parking meter
- Telecom equipment supervision (Mobile base station, microwave or optical relay station)
- Oil field data acquisition
- Warehouse supervision

Chapter3

3 Getting Started

3.1 Connect to product

6.5

1. Please connect antenna and cable with our products, make sure the following The port is COM1 or COM2.



3.5 Insert SIM Card

2. Open the SIM Card Slot and insert into SIM card,

3.6 Note: Hyper Terminal

3. Open the HyperTerminal and input ***(any) as follows

HyperTerminal
For more power and convenience, upgrade to hot new HyperACCESS, TODAY!
Developed for Microsoft by Hilgraeve Inc.
Connection Description ? X New Connection
Connection Description ? × Image:
Connection Description ? × Image: Provide the connection: Name: Image: Provide the connection: Provide the connection:

4. Choose a right port

Connect To	? ×
🧞 test	
Enter details for t	he phone number that you want to dial:
<u>C</u> ountry/region:	China (86) 🔽
Ar <u>e</u> a code:	0755
Phone number:	
Connect using:	COM1
	OK Cancel

5. The right configuration as following

COM1 Properties	? ×
Port Settings	
<u>B</u> its per second: 115200 ▼	
Data bits: 8	
Parity: None	
Stop bits: 1	
Elow control: None	
<u>R</u> estore Default	is I
OK Cancel A	pply



6. When your start-up Hyper Terminal, it is not connected really, you can see the red mark of follow picture without any number .And then, first Disconnect existing connection, second ,Click the red arrowhead



7. Click the "configure", and double confirm your modified configuration

test Properties			? ×
Connect To Set	tings		
🧞 test		Change [cor	<u>n</u>]
Country/region:	China (86)		<u> </u>
Enter the area c	ode without the	long-distance pre	efix.
Ar <u>e</u> a code:	0755		
Phone number:			
Co <u>n</u> nect using:	СОМ1		-
✓ Use country, ✓ Bedial on but	Configure. /region code an sy	 d area code	
		OK	Cancel

8. Double confirm your modified configuration and click "OK"

COM	1 Properties			?	×
Po	ort Settings				
	-				1
	<u>B</u> its per second:	115200			
	<u>D</u> ata bits:	8		•	
	<u>P</u> arity:	None		<u> </u>	
	Stop bits:	1		_	
	<u>a</u> top bits.	<u> '</u>			
	Flow control:	None		-	
				_	
			<u>R</u> estore	Defaults	
	0	к	Cancel	Apply	

9. Then you can see it appeared baud rate on white label, then click the black label to make call



10. provide power supply with our products, you configured the Hyper Terminal successfully

3.7 Test command

Test AT command		
AT <cf></cf>	//Test "at"command	
I/OK	<pre>//Response ok parameter if su module have no malfunction</pre>	ccessfully connected, you can make sure the
AT+CSQ <cf></cf>	// to check the Signal quality	
+CSQ: **, ##	// ** Should be the number be	tween 10 and 31, the signal quality becomes better
	as the number grows.	## should be is 99, Or you should checking
	the equipment of antenna or S	SIM card.
If you succeed in test	ting command, at now, you can	begin to use Modem

Chapter4

4 Configure directory

4.1 About SMS

How to used SMS: Please follow the SMS User Manual

4.2 About CSD

4.2.1 Introduce CSD

CSD (Circuit Switched Data) is 9.6kbps speed circuit Switched Data from GSM network,

GSM+2 operations could attainability 14.4kb/s speed. and encrypts the data at the same time, so the GSM system has the encryption function. It can connect with the line Modem,

4.2.2 Getting started

- Connect two modems with each two computers" cable and open up Hyper Terminal
- Setting Modems baud rate 9600bps
- Register the CSD function. if you used this function, the SIM card have Register CSD. Dredge CSD Function usually have two number. one is "pn" for voice message .and other is" un" for date message

4.2.3 Mutuality command

4.2.3.1 Generally command

ATD136*****	//make call
ATA	//answer a call
+++	//Switch from date mode or PPP online mode to command mode
ATO	//Switch from command mode to data mode or PPP online mode
ATH	//Disconnect existing Connection

4.2.3.2 Set the auto answer in ringing

ATS0=n	//Set number of ring before automatically answering the call
AT+IPR=n	//Setting Baud Rate of Module (default is auto-acclimatize)

Note: n=0/300/600/1200/2400/4800/9600/14400/28800/38400/57600/115200 (in M12S211, this parameter default is 0; in M12H111, this parameter default is 115200)

4.2.4 Test

Initialization con	nmands"
AT&F0	// renew default parameter
AT+IPR=9600	// setting fixed baud rate
AT&W	// save parameter
Initialization con	nmand of Callee
ATS0=1	
Initialization con	nmand of caller
ATD[dn]	//note: not ending as" ; "is data call, end as";" is voice call make call [dn]is data number.
Callee answer c	ommand
ΑΤΑ	// answer call
Communicate accou	nt command
+++	// abort communicate, return command mode
ATO	// Switch from command mode to data mode or PPP online mode
Disconnect existing	Connection
ATH	// Disconnect existing Connection, in command mode
When Callee receiv	es a ring, it answers automatically. Both them will show connect 9600and enter data

state .then you can used CSD.

There is a simple test course; it is suitable for modem products, and fit for the wireless modem connect with line modem.

The Connecting mode of the CSD is same with line modem, even replace, but it is expensive, and not always online, only point to point, can not be one point to many points (center need to use modem, if come true point to point)

4.3 Dial-up

Dial-up to connect network in windows XP operation System

4.3.1 Setup Modem

Please connect Modem with your computer Rs232 interface cable .then Start from "Control Panel", click "Phone and Modem Options", and select "Modem":



click "New location" to add a new modem:

Phone and Modem Options	? ×
Dialing Rules Modems Advanced	
The following <u>m</u> odems are installed:	
Modem	Attached To
I Generic Edge Modem	Not present
🗢 Lucent Win Modem	COM4
Standard 33600 bps Modem 🍣	COM1
A <u>d</u> d <u>R</u> er	nove <u>P</u> roperties
	Cancel Apply

Tap "Don't detect my modem; I will select it from a list ", and then click" Next" to continue

Add Hardware Wizard		
Install New Modem Do you want Windows	to detect your modem?	
	 Windows will now try to detect your modem. Before continuing, you should: 1. If the modem is attached to your computer, make sure it is turned on. 2. Quit any programs that may be using the modem. Click Next when you are ready to continue. Image: Don't detect my modem; I will select it from a list. 	
	< <u>B</u> ack <u>N</u> ext >	Cancel

When appear "install new modem" dialog box, choose "standard Modem Types" in the left manufacturer, and choose "Standard 19200 bps Modem" in the right Models

Add Hardware Wizard	
Install New Modem	
Select the manufacturer an have an installation disk, cli	d model of your modem. If your modem is not listed, or if you ck Have Disk.
Manufacturer (Standard Modem Types) Generic	Models Standard 2400 bps Modern Standard 9600 bps Modern Standard 14400 bps Modern Standard 19200 bps Modern Standard 19200 bps Modern
This driver is digitally signed. <u>Tell me why driver signing is imp</u>	<u>H</u> ave Disk
	< <u>B</u> ack <u>N</u> ext > Cancel

Select COM port: Choose the right port (it depends your computer, may be not "COM1".), and click "next" then you will finish installation.

Add Hardware Wizard	
Install New Modem Select the port(s) you	want to install the modem on.
	You have selected the following modem: Standard 19200 bps Modem On which ports do you want to install it? All ports Selected ports COM1 COM6
	< <u>B</u> ack <u>N</u> ext > Cancel

When appear Following Frame, Click "Finish" to succeed your modem installation.



4.3.2 Setup 19200 Modem

Click "Phone and Modem Options" from "Control Panel", Click "Modems" tab; select the modem that choose the" Standard 19200 bps modem", and then click "Properties" button.

Phone and Modem Options	? ×
Dialing Rules Modems Advanced	
The following <u>m</u> odems are installed:	
Modem	Attached To
🕪 Generic Edge Modem	Not present
Iucent Win Modem	COM4
Standard 19200 bps Modem 🍣	COM1
Standard 33600 bps Modem	COM1
A <u>d</u> d <u>R</u> er	nove <u>P</u> roperties
<u> </u>	Cancel Apply

At "Modem" tab, set the "Maximum Port Speed" to "115200".

Standard 19200 bps Modem Properties	? ×
General Modem Diagnostics Advanced Driver	
Port: COM1	
Speaker volume	
Maximum Port Speed	
Dial Control	
ОК	Cancel

Choose "Diagnostics" tab, click the "Query Modem, if Baud rate setting and so on is right, there are automatic indication that it is have pass

Standard 19200 bps Modem Properties	? ×
General Modem Diagnostics Advanced Driver	
Modem Information	
Field Value	
Hardware ID mdmgen192	
Command Response	
Query Modem	
Logging □ Append to Log	
OK Car	cel

Next, click "Advanced" tab, Here, you can add or change settings by filling in Extra initialization commands at "Advanced" tab

M300d	Extra initialization commands: AT+CGDCONET=1, IP, CMNET
EL-M300d2	Extra initialization commands: AT+CGDCONET=1, \"IP\", \"CMNET\"
EL-M300ev	Extra initialization commands: AT&D2

Notes: CMNET is the APN from the network. Different network provider has different APN. Please confirm before setting.

Standard 19200 bps Modem Properties	? ×
General Modem Diagnostics Advanced Driver	
Extra Settings Extra initialization commands: [AT+CGDCONET=1,IP,CMNET]	
Change <u>D</u> efault Preferences	
	<u>ا ا</u> د

(this picture is the example to the modem for reference)

Standard 19200 bps Modem Properties	? ×
General Modem Diagnostics Advanced Driver	
Extra Settings	1
Extra initialization commands: AT+CGDCONET=1,\"IP\",\"CMNET\"	
,	
Change <u>D</u> efault Preferences	
	Canad
	Cancel

(this picture is the example to the modem for reference)

Standard 19200 bps Modem Properties	? ×
General Modem Diagnostics Advanced Driver	
Extra Settings Extra initialization commands: [AT&D2]	
Change <u>D</u> efault Preferences	
ОК	Cancel

(this picture is the example to the modem for reference)

NOTICE: "CMNET" is China Mobile APN setting; you should change it in accordance with the information provided by your local service provider.

4.3.3 Create Dial-up network

The Modem have been right setting as following picture, next ,To setup your GPRS/CDMA/EDGE/EVDO/HSDPA Dial-up network, Open "Network Connections".



Double click "network Connection", click "Next" to continue

] Eile Edit View Favorites Iools Advanced Help 🍂
🛛 🔇 Back 🔹 🗇 🕫 🔎 Search 🌔 Folders 🖽 🔹 😰 🏠 🧊 🗳 🛧 Favorites 🔗 🖃 🕼 沙 🗙 🎽 🗋 🚺 😥
Address 🗞 Network Connections 🔹 🔁 Go
CSD CDMA SKYWALKER
LAN or High-Speed Internet
New Connection Wizard

The Network Connection Wizard opens. Click "Next" to continue. Put a check mark on Connect to the Internet and click next.

lew Connection Wizard	
Network Connection Type What do you want to do?	
 Connect to the Internet Connect to the Internet so you can browse the Web and read email. Connect to the network at my workplace Connect to a business network (using dial-up or VPN) so you can work from home, a field office, or another location. 	
Set up a home or small office network Connect to an existing home or small office network or set up a new one.	
Set up an advanced connection Connect directly to another computer using your serial, parallel, or infrared port, or set up this computer so that other computers can connect to it.	
< <u>B</u> ack <u>N</u> ext > Cancel	

Select the options Set up my connection manually and click next.

New Connection Wizard
Getting Ready The wizard is preparing to set up your Internet connection.
How do you want to connect to the Internet?
Choose from a list of Internet service providers (ISPs)
• Set up my connection <u>m</u> anually
For a dial-up connection, you will need your account name, password, and a phone number for your ISP. For a broadband account, you won't need a phone number.
O Use the <u>C</u> D I got from an ISP
< <u>B</u> ack <u>N</u> ext > Cancel

Select Connect using a dial-up modem and click "next" button to continue.

w Connection Wizard	
Internet Connection How do you want to connect to the Intern	iet?
• Connect using a dial-up modem	
This type of connection uses a moder	n and a regular or ISDN phone line.
Connect using a broadband con and password This is a high-speed connection using refer to this type of connection as PPF	either a DSL or cable modem. Your ISP may PoE.
Connect using a broadband connection that is <u>a</u> lways on This is a high-speed connection using either a cable modem, DSL or LAN connection. It is always active, and doesn't require you to sign in.	
	< <u>B</u> ack <u>N</u> ext > Cancel

Select the modem driver that you want to use for the dial-up connection. Click Next to Continue.

New Connection Wizard
Select a Device This is the device that will be used to make the connection.
You have more than one dial-up device on your computer. <u>S</u> elect the devices to use in this connection:
 ■ Addem - Lucent Win Modem (COM4) ✓ Addem - Standard 19200 bps Modem (COM1) □ Addem - Standard 33600 bps Modem (COM1)
< <u>B</u> ack <u>N</u> ext > Cancel

Type an appropriate Connection name and click next.

New Connection Wizard
Connection Name What is the name of the service that provides your Internet connection?
Type the name of your ISP in the following box. ISP N <u>a</u> me
testmodem
The name you type here will be the name of the connection you are creating.
< <u>B</u> ack <u>N</u> ext > Cancel

AS showing below picture, Depending on the network, input ISP phone number in "phone number" box,

if modem type is GSM that standard phone number is"*99***1#", If modem type is CDMA that standard phone number is"#777"

New Connection Wizard	New Connection Wizard
Phone Number to Dial	Phone Number to Dial
What is your ISP's phone number?	What is your ISP's phone number?
Type the phone number below.	Type the phone number below.
Phone number:	Phone number:
「93™1#	#777
You might need to include a "1" or the area code, or both. If you are not sure	You might need to include a '1' or the area code, or both. If you are not sure
you need the extra numbers, dial the phone number on your telephone. If you	you need the extra numbers, dial the phone number on your telephone. If you
hear a modem sound, the number dialed is correct.	hear a modem sound, the number dialed is correct.
< Back Next > Cancel	< <u>B</u> ack Next> Cancel

(Modem phone number)

It will display the following "Internet Account Information" Frame. You may be required to put a User name and a Password for the dial-up connection

If modem type is GSM that user name and password both are "wap",

If modem type is CDMA that user name and password both is "Card".

New Connection Wizard		
Internet Account Information You will need an account name and password to sign in to your Internet account.		
Type an ISP account name and password, then write down this information and store it in a safe place. (If you have forgotten an existing account name or password, contact your ISP.)		
<u>U</u> ser name:	wap	
<u>P</u> assword:	••••	
<u>C</u> onfirm password:	•••	
Use this account name and password when anyone connects to the Internet from this computer		
✓ Make this the default Internet connection		
	< <u>B</u> ack <u>N</u> ext > Cancel	

(example to gsm modem)

New Connection Wizard	
Internet Account Information You will need an account name and password to sign in to your Internet account.	
Type an ISP account name and password, then write down this information and store it in a safe place. (If you have forgotten an existing account name or password, contact your ISP.)	
User name: card	
Password:	
Use this account name and password when anyone connects to the Internet from this computer	
✓ Make this the default Internet connection	
< <u>B</u> ack <u>N</u> ext > Cancel	

(example to cdma modem)

Click "next" button, as showing below picture, Click "Finish" to succeed your new Connection installation

New Connection Wizard	
	Completing the New Connection Wizard
	You have successfully completed the steps needed to create the following connection:
	testmodem Make this the default connection Share with all users of this computer Use the same user name & password for everyone
	The connection will be saved in the Network Connections folder.
	Add a shortcut to this connection to my desktop
	To create the connection and close this wizard, click Finish.
	< <u>B</u> ack Finish Cancel

Notice: The modem may be initialized for Chinese market options. If it is, it should be changed with your local operator initializations.

Every newly created dial-up connection should be configured before using it to establish a PPP connection.



Select the dial-up connection you want to configure. And click the "Properties,

Select a right device as you're just having setup modem. Make an example to "modem standard 19200bps modem (com 1). Then Click "configure" button to continue.

🖢 testmodem Properties 🛛 🔹 🔀	
General Options Security Networking Advanced	
Connect using:	
Modem - Standard 19200 bps Modem (COM1) Modem - Standard 33600 bps Modem (COM1) Modem - Lucent Win Modem (COM4)	
All devices call the same numbers	
Phone number	
Arga code: Phone number: Image: Phone number:	
Country/region code:	
Use dialing rules	
Sho <u>w</u> icon in notification area when connected	
OK Cancel	

Setting Maximum speed (Bps) is 115200 and click "ok" to finish modem configuration.

Modem Configuration	? 🗙
Standard 19200 bps	Modem (COM1)
<u>M</u> aximum speed (bps):	115200
Modem protocol	
Hardware features	
Enable hardware flow co	introl
Enable modem error con	trol
Enable modem compress	sion
Show terminal window	
🔲 Enable mo <u>d</u> em speaker	
	OK Cancel

4.3.4 Login on network

Connect CDMA	Connect CDMA
User name: wap	User name:
Password:	Password:
Save this user name and password for the following users:	Save this user name and password for the following users:
O Me o <u>n</u> ly	O Me o <u>n</u> ly
Anyone who uses this computer	
Djal: ×99***1#	Djai: #777 🔽
Dial Cancel Properties Help	Dial Cancel Properties Help

Double click new network connection, dial up directly, depends on the network, input user name and password both,

If modem type is gsm that user name and password both are "wap",

If modem type is cdma that user name and password both is "Card".

After detecting user name and password, login on network. The symbol of dial-up network will appear at the right corner, open IE and then you can browse web. If in connect network have any problem. Please sure A. Your SIM block GPRS is CMNET server, but CNWAP server

B. For else Internet Explorer of network set is right

C. It's without any modem is running in the currently computer

4.4 Setting APN or VPDN

When you dial-up network, you need to set up APN or VPDN configuration after you created a19200 modem. You need to input extra initialization command in different network

Click "Advanced" tab, Here, you can add or change settings by filling in Extra initialization commands at "Advanced" tab.

Notice: the Dial-up function is not only supported by the GSM Modem, but also for other modems

4.4.1 Setting APN

Extra initialization commands:

GSM: GSM:

AT+CGDCONET=1, IP, <mark>CMNET</mark>
AT+CGDCONET=1, \"IP\", \" <mark>CMNET</mark> \"

Standard 19200 bps Modem Properties	? ×
General Modem Diagnostics Advanced Driver	
Extra Settings	
Extra initialization commands:	
Change Default Preferences	
ОК	Cancel

(this picture is the example for GSM modem)

Standard 19200 bps Modem Properties	? ×
General Modem Diagnostics Advanced Driver	
Extra Settings Extra initialization commands: AT+CGDCONET=1 \^TP\^T\^TCMNET\^1	
Change Default Professional	
	ancel

(example to GSM modem)

It showing below picture, You may be required to put a User name and a Password for the dial-up connection; setting the APN user name and password both are "wap" and save it

Connect CDMA		? ×
		X
<u>U</u> ser name: <u>P</u> assword:	wap •••	
☑ <u>S</u> ave this ○ Me o <u>n</u> l ⓒ <u>A</u> nyone	user name and password for the following y e who uses this computer	g users:
Djal:	×99***1#	•
<u>D</u> ial	Cancel Properties	<u>H</u> elp

4.4.2 Setting VPDN

VPDN Extra initialization commands:

AT&D2

// suitable for CDMA/EVDO Modem

Standard 19200 bps Modem Properties 🛛 🤗	×
General Modem Diagnostics Advanced Driver	
Extra Settings Extra initialization commands: AT&D2	
Change <u>D</u> efault Preferences	
OK Cancel	

(example to GSM modem)

Double click new network connection, dial up directly, depend on the network, input VPDN user name and password both are "card".

Connect CDMA
User name: Card Password: ••••
 Save this user name and password for the following users: Me only Anyone who uses this computer
Djal: #777
Dial Cancel Properties Help

Chapter 5

5 Production list

name	unit	number	description	Sketch-map
Host	Entries	1	Standard supply	
Power Supply	Entries	1	Supply 9V	
Antenna	Entries	1	Standard supply	
Production-CD	piece	1	Standard supply	

Chapter 6

6 Terminology

Internet	A network of computer networks which operates world-wide using a common set of communications protocols.
GPRS	Short for General Packet Radio Service, a standard for Cellular communications which runs at speeds up to 115 kilobits per
SIM	Subscriber Identity Module – a small rectangular piece of plastic with a layer of copper. Provided as a part of mobile telephone service.
ISP	Internet Service Provider
DDNS	Dynamic Domain Name Server