

# TR-203 Personal GPS Tracker

## User Manual



Version: 0.6 TQ

[www.traqlogic.com](http://www.traqlogic.com)

## **Operator Reminders**

### **Power Supply Usage**

- It is your responsibility as the device owner to charge the internal rechargeable battery for a minimum of three (3) hours via the supplied AC power adapter under the power-off condition. This is highly recommended for first time users.

### **SIM Card Notice**

- It is your responsibility as the device owner to disable voicemail, call waiting, and call forwarding. If not certain, contact your telecommunications service provider to disable these features.

### **Battery Safety Precaution**

- It is your responsibility as the device owner to meet all battery operating parameters set forth by the manufacturer's specifications. Otherwise, operators exceeding the recommended Li-Ion battery pack care may encounter a potential risk of heating, explosion, and ignition leading to the risk of fire and burns. Do not disassemble, crush, puncture, short contacts and dispose in fire or water. Do not use battery if the following is encountered: notice physical damage, deformed, deformed or emissions a foul odor.
- Do not place TR-203 in environments with temperatures exceeding 55 °C (131 °F). Standard operating temperature range is -20°C and 55°C.
- Only use original manufactured power charger

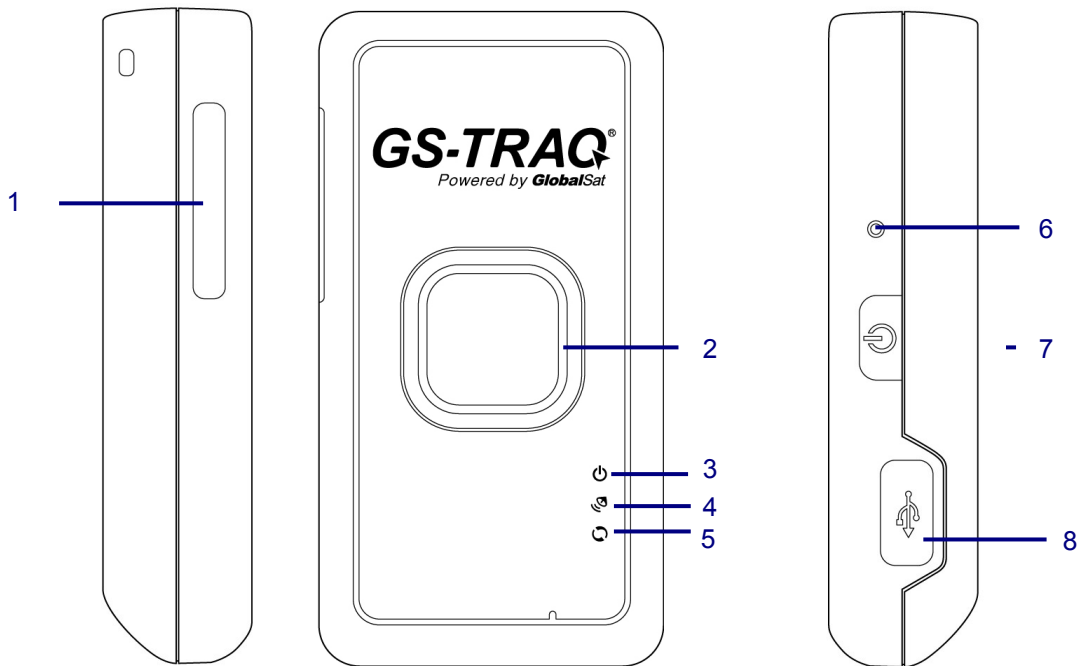
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# 1. Introduction

TR-203 is a personal tracking device with fast acquisition time. It is compact, portable and stylish in design with GPS / GSM / GPRS wireless network. User can easily remotely configure TR-203, and then displays the location by specific map software. Plus voice monitoring function, geo-fence function, data logger function, this is simply your best choice for remote tracking.

## 1.1 Product Description



- 1 SIM card holder
- 2 SOS button
- 3 Power status LED
- 4 GPS LED
- 5 GSM LED
- 6 Reset key
- 7 Power Key
- 8 Mini USB port

## 1.2 LED Indicator

### Power Status LED

LED	Orange	Red
State	TR-203 is being charged.	Battery power is low

### GPS LED

LED	Blink Quickly (Once per second)	Blink Slowly (Once every 3 seconds)
State	TR-203 does not get GPS fix	TR-203 gets GPS fix

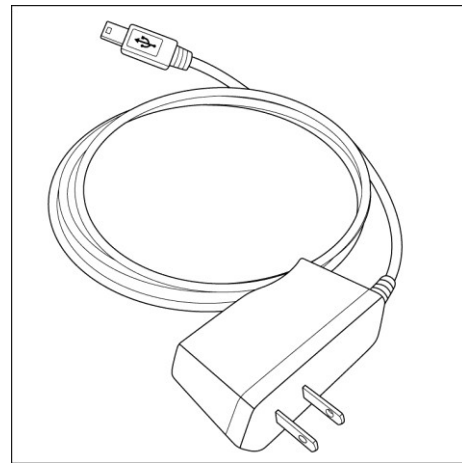
### GSM LED

LED	Blink Quickly (Once per second)	Blink Slowly (Once every 3 seconds)
State	<ol style="list-style-type: none"><li>1. No SIM card inserted</li><li>2. TR-203 is searching GSM network</li><li>3. SIM card is registering to GSM network</li></ol>	Standby Mode

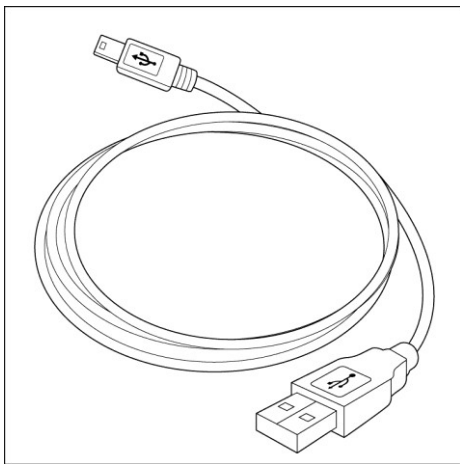
### 1.3 Accessories



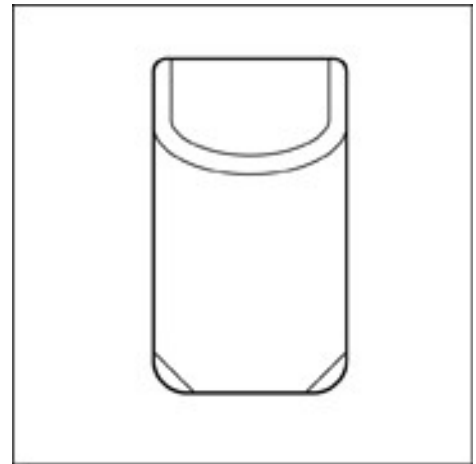
TR-203



AC charger



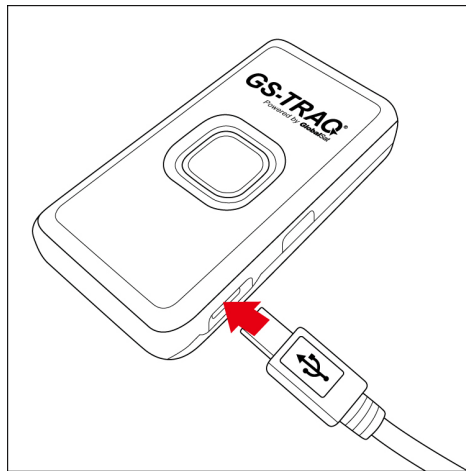
USB cable



Carry Bag

## 2 TR-203 Operation

### 2.1 Charge the device



Initially, the enclosed rechargeable battery requires a complete charge before device usage. Therefore, to maximize your device's battery life it is highly recommended to proceed by performing the steps listed below.

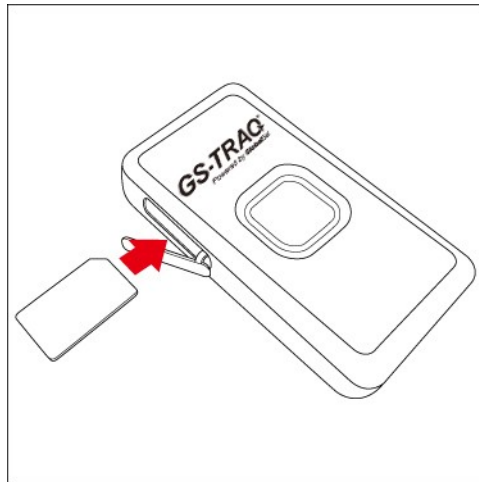
**METHOD 1: Using the AC adapter cable charge method:**

1. Connect TR-203 to its supplied AC adapter cable.
2. Allow a 4 hour battery charge time. (TR-203 in power-off condition)

**METHOD 2: Using the USB cable charge method:**

3. Connect TR-203 to its supplied USB to Mini-USB cable to PC or Notebook.  
(Computer requires to be turned "ON")
4. Allow a 4 hour battery charge time. (TR-203 in power-off condition)

## 2.2 Install SIM card



With the copper contacts facedown, align the notch on the SIM card with the notch on the SIM slot and insert the SIM card. If SIM is inserted correctly, you will not be able to see the copper contacts after inserting the card. To eject SIM card, simply, use your finger nail and apply slight pressure.

**Note:** Refer to your mobile phone manual to disable the SIM PIN entry function by your mobile phone.

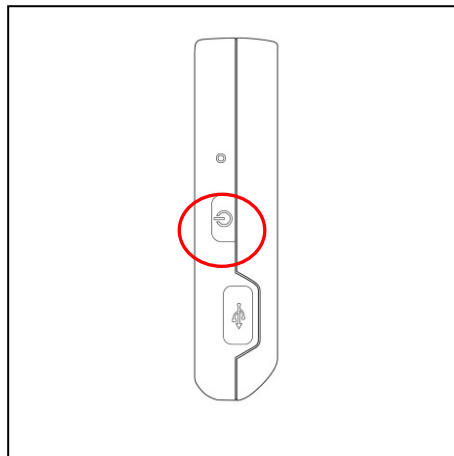
**Note:** Before installing or taking out SIM card, please power off TR-203.

## 2.3 Emergency button



Press and hold the emergency button until you feel the device vibrating. TR-203 will send the emergency report to the preset phone or TR Management Center.

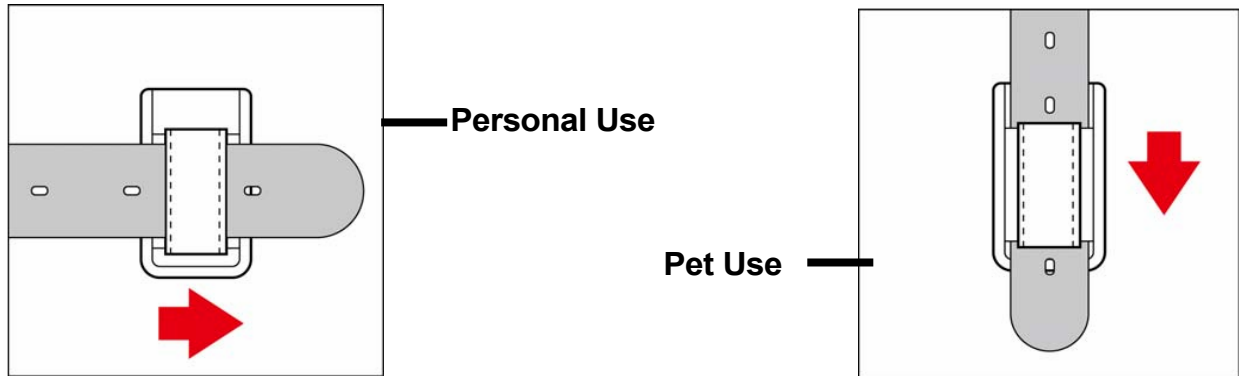
## 2.4 Initialization



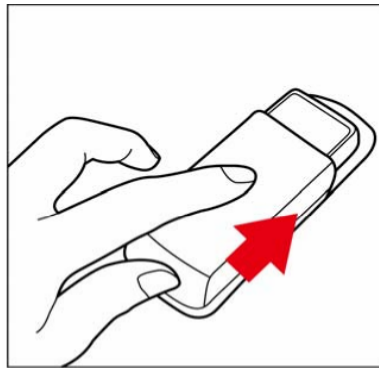
To turn the device "ON", press and hold the power button until you feel the device vibrating. To turn the device "OFF", press and hold the power button until you feel the device vibrating. The vibration effect indicates the user requests have been acknowledged.

## 2.5 Carry Bag

The enclosed carry bag provides versatility to users with applications encompassing persons and/or pets. In addition to flexibility, security is the other important attribute with the assistance of a belt.



Slide the TR-203 device into the carry bag, until is secured. To remove the TR-203 device from the carry bag, simply, apply pressure at the bottom with outward force pushing the TR-203 out of the bag as pictured below.



# Appendix 1: GPRS Parameter

Country	Network	APN	User Name	Password
Albania	Vodafone	Twa	guest	guest
Argentina	CTI	internet.ctimovil.com.ar	guest	guest
Argentina	Movistar	internet.gprs.unifon.com.ar internet.unifon	wap	wap
Argentina	Personal	gprs.personal.com	[mobile number]	adgj
Australia	Optus	internet	guest	guest
Australia	Telstra	telstra.internet	guest	guest
Australia	Telstra (data bundles)	telstra.datapack	[blank]	Telstra
Australia	Telstra (pay by time)	telstra.pcpack	[blank]	Telstra
Australia	Three	3netaccess	a	a
Australia	Vodafone	vfinternet.au	guest	guest
Austria	Drei	drei.at	guest	guest
Austria	Max Online	gprsinternet	GPRS	[blank]
Austria	Max Online (Business)	business.gprsinternet	GPRS	[blank]
Austria	Max Online (Metro)	gprsmetro	GPRS	[blank]
Austria	Mobilkom A1	a1.net	ppp@a1plus.at	ppp
Austria	OneNet	web.one.at	web	web
Austria	tele.ring	web	web@telering.at	web
Azerbaijan	Azercell	internet	guest	guest
Bangladesh	Grameen Phone	gpinternet	[blank]	[blank]

Belarus	VELCOM	web.velcom.by unlim.velcom.by	web unlim	web unlim
Belgium	Mobistar (personal)	internet.be	mobistar	mobistar
Belgium	Mobistar (business)	web.pro.be	mobistar	mobistar
Belgium	Orange	orangeinternet	guest	guest
Belgium	Proximus (Internet)	internet.proximus.be	guest	guest
Belgium	Proximus (intranet)	intraprox.be	guest	guest
Botswana	Mascom Wireless	internet.mascom	guest	guest
Brazil	Claro	claro.com.br	claro	claro
Brazil	Oi	gprs.oi.com.br	guest	guest
Brazil	Oi (WAP)	wapgprs.oi.com.br	oiwap	oiioi
Brazil	TIM	tim.br	tim	tim
Brazil	Velox	wap.telcel.com	iesgprs	iesgprs2002
Bulgaria	GloBul	internet.globul.bg	globul	[none]
Bulgaria	M-Tel	mms-gprs.mtel.bg	mtel	mtel
Cameroon	MTN Cameroon	INTERNET	guest	guest
Canada	KORE Wireless	apn.zerogravitywireless.com	[blank]	[blank]
Canada	Microcell (Fido)	internet.fido.ca	fido	fido
Canada	Rogers AT&T	internet.com	wapuser1	wap
Chile	Entel PCS	imovil.entelpcs.cl	entelpcs	entelpcs
Chile	Telefonica Movil	web.tmovil.cl	web	web
China	China Mobile	cmnet	guest	guest

China	China Unicom	[none]	guest	guest
Croatia	T-Mobile	web.htgpr	38591	38591
Croatia	VIPNET START	gprs0.vipnet.hr	38591	38591
Croatia	VIPNET PRO	gprs5.vipnet.hr	38591	38591
Croatia	VIPNET 3G	3g.vip.hr	38591	38591
Colombia	Movistar	internet.movistar.com.co	movistar	movistar
Congo	Vodacom	vodanet	vodalive	[blank]
Costa Rica	IceCelular	icecelular	guest	guest
Czech Republic	Cesky Mobil (contract)	internet	guest	guest
Czech Republic	Cesky Mobil (CM Prepay)	cinternet	guest	guest
Czech Republic	Telefonica (contract)	internet	guest	guest
Czech Republic	Telefonica (Go)	gointernet	guest	guest
Czech Republic	Vodafone (contract)	internet	guest	guest
Czech Republic	Vodafone (pre-pay)	ointernet	guest	guest
Czech Republic	T-Mobile	internet.t-mobile.cz	guest	guest
Denmark	3	[none]	guest	guest
Denmark	Orange	web.orange.dk	guest	guest
Denmark	Sonofon	[none]	guest	guest
Denmark	TDC	internet	guest	guest
Dominican Republic	Orange	orangenet.com.do	guest	guest

Egypt	Click Vodafone	internet.vodafone.net	internet	internet
Egypt	MobiNil	mobilnilweb	guest	guest
Estonia	EMT	internet.emt.ee	guest	guest
Estonia	RLE	internet	guest	guest
Finland	Dna	internet	guest	guest
Finland	Elisa (Radiolinja)	internet	rlnet	internet
Finland	Saunalahti	internet.saunalahti	guest	guest
Finland	Sonera	internet	[blank]	[blank]
Finland	Song	internet.song.fi	song@internet	songnet
France	Bouygues	ebouygtel.com	guest	guest
France	Bouygues (B2Bouygtel)	b2bouygtel.com	guest	guest
France	Orange (contract)	orange.fr	orange	orange
France	Orange MIB	orange-mib	mportail	mib
France	Orange Mobicarte	orange-acte	orange	orange
France	SFR	websfr	guest	guest
Germany	D2 Vodafone	web.vodafone.de	guest	guest
Germany	E-Plus	internet.eplus.de	eplus	gprs
Germany	O2 (3G)	surfo2	guest	guest
Germany	O2 (GPRS)	internet	guest	guest
Germany	Quam	quam.de	quam	quam
Germany	T-Mobile D1	internet.t-mobile	internet.t-d1.de	t-mobile
Ghana	Areeba (formerly Spacefon)	internet.spacefon.com	guest	guest

Greece	Cosmote	internet	guest	guest
Greece	Telestet	gnet.b-online.gr	MSISDN, e.g. 3093XXXXXXX	24680
Greece	TIM	gint.b-online.gr	web	web
Greece	Vodafone	internet.vodafone.gr	guest	guest
Guatemala	Comcel	Wap.tigo.gt	Wap	Wap
Guatemala	PCS Digital	ideasalo	guest	guest
Guyana	GT&T Cellink Plus	wap.cellinkgy.com	test	test
Hong Kong	CSL	hkcs1 or internet	guest	guest
Hong Kong	New World	internet	guest	guest
Hong Kong	Orange	web.orangehk.com	guest	guest
Hong Kong	People	internet	guest	guest
Hong Kong	SmarTone	internet	guest	guest
Hong Kong	Sunday	internet	guest	guest
Hong Kong	Three	web-g.three.com.hk	guest	guest
Hungary	Pannon (normal)	net	guest	guest
Hungary	Pannon (flat rate)	netx	guest	guest
Hungary	Pannon (compressed)	snet	guest	guest
Hungary	T-Mobile (subscription)	internet	[supplied]	[supplied]
Hungary	T-Mobile (non-sub.)	internet	wap	Wap
Hungary	T-Mobile (MMS)	mms-westel	mms	[supplied]

Hungary	Vodafone (contract) (compr.)	internet.vodafone.net	guest	guest
Hungary	Vodafone (contract) (un-comp.)	standardnet.vodafone.net	guest	guest
Hungary	Vodafone (pre-pay) (comp.)	vitamax.internet.vodafone.net	guest	guest
Hungary	Vodafone (pre-pay) (un-comp.)	vitamax.snet.vodafone.net	guest	guest
India	AirTel	airtelgprs.com	guest	guest
India	BPL	bplgprs.com	bplmobile	[blank]
India	BSNL	celloneportal	guest	guest
India	Hutch (normal)	www	guest	guest
India	Hutch (Gujarat)	web	guest	guest
India	Idea Cellular	internet	guest	guest
India	MTNL Mumbai	mmsmtnlmum	mtnl	mtnl123
India	MTNL Mumbai (Plan 2)	gprsmtnlmum	mtnl	mtnl123
Indonesia	Excelcomindo	www.xlgprs.net	xlgprs	proxl
Indonesia	IM3	www.indosat-m3.net wap.indosat-m3.net	gprs	im3
Indonesia	Indosat (Matrix)	satelindogprs.com indosatgprs	guest	guest
Indonesia	Telkomsel	internet telkomsel	wap	wap123

Ireland	Meteor	isp.mymeteor.ie	my	meteor
Ireland	O2 (contract)	open.internet	gprs	gprs
Ireland	O2 (pre-pay)	pp.internet	gprs	gprs
Ireland	Vodafone (contract)	isp.vodafone.ie	vodafone	vodafone
Ireland	Vodafone (pre-pay)	live.vodafone.com	vodafone	vodafone
Israel	Cellcom	internetg	guest	guest
Israel	MTC-Vodafone	apn01	guest	guest
Israel	Orange	orangeinternet	guest	guest
Italy	Blu	INTERNET	guest	guest
Italy	H3G	tre.it	guest	guest
Italy	TIM	ibox.tim.it	guest	guest
Italy	Vodafone (Omnitel)	web.omnitel.it	guest	guest
Italy	Wind	internet.wind internet.wind.biz	Wind	Wind
Jamaica	Cable & Wireless	wap	guest	guest
Jamaica	Digicel	web.digiceljamaica.com	wapuser	wap03jam
Japan	Vodafone (J-Phone)	vodafone	ai@vodafone	vodafone
Jersey	(See UK)			
Kazakhstan	Beeline	internet.beeline.kz	internet.beeline	[blank]
Kenya	Safaricom	web.safaricom.com	web	web
Laos	ETL	etlnet	guest	guest
Latvia	LMT	internet.lmt.lv	[blank]	[blank]

Latvia	Tele2	internet.tele2.lv	gprs	internet
Lebannon	Cellis FTML	internet.ftml.com.lb	plugged	plugged
Lebannon	MTC Touch	gprs.mtctouch.com.lb	guest	guest
Lithuania	Bite GSM	banga	guest	guest
Lithuania	Omnitel (contract)	gprs.omnitel.net	guest	guest
Lithuania	Omnitel (no contract)	gprs.startas.lt	omni	omni
Luxembourg	LUXGSM	web.pt.lu	guest	guest
Luxembourg	Tango	internet	tango	tango
Luxembourg	VOXmobile	vox.lu	guest	guest
Macau	CTM	ctm-mobile	guest	guest
Macau	Macau Hutchison Telecom (Internet)	web.hutchisonmacau.com	hutchison	1234
Macau	Macau Hutchison Telecom (MMS)	mms.hutchisonmacau.com	hutchison	1234
Malaysia	DIGI	diginet	guest	guest
Malaysia	Celcom	celcom.net.my	guest	guest
Malaysia	Maxis 2G (contract)	internet.gprs.maxis	guest	guest
Malaysia	Maxis 3G (contract)	unet	maxis	wap
Malaysia	Maxis (pre-pay)	net	maxis	net
Malaysia	Timecel	timenett.com.my (timenet.com.my?)	guest	guest
Malaysia	TM Touch	internet	guest	guest
Malta	Go Mobile	gosurfing	guest	guest

	(contract)			
Malta	Go Mobile (pre-pay)	rtgsurfing	guest	guest
Mexico	Telcel	internet.itelcel.com	webgprs	webgprs2002
Moldavia	Moldcell	internet	gprs	gprs
Morocco	Maroc Telecom	iam	wac	1987
Morocco	Medi Telecom	wap.meditel.ma	MEDIWAP	MEDIWAP
Netherlands	KPN Mobile	internet	KPN	gprs
Netherlands	O2	internet	guest	guest
Netherlands	T-Mobile (Ben) active	internet	guest	guest
Netherlands	Telfort	internet	telfortnl	password
Netherlands	Vodafone (normal)	web.vodafone.nl	vodafone	vodafone
Netherlands	Vodafone (business)	office.vodafone.nl	vodafone	vodafone
New Zealand	Vodafone (unrestricted)	internet	guest	guest
New Zealand	Vodafone (restricted)	www.vodafone.net.nz	guest	guest
Nicaragua	Alo Pcs	internet.ideasalo.ni	internet	internet
Nigeria	Globacom (Internet)	gprs	wap	[blank]
Nigeria	Globacom (WAP)	glowap	wap	wap
Nigeria	MTN Nigeria	web.gprs.mtnnigeria.net	wap	gprs
Nigeria	Vmobile	wap.vmobile	wap	wap
Norway	Netcom	internet.netcom.no	netcom	netcom

Norway	TalkMore	(same as Netcom)		
Norway	Telenor Mobil (Vodafone)	Internet internet.vodafone.net	guest	guest
Pakistan	UFone	ufone.internet	ufone	ufone
Panama	Cable & Wireless	apn01.cwpanama.com.pa	xxx	xxx
Paraguay	CTI	internet.ctimovil.com.py	ctigprs	ctigprs999
Peru	Claro (TIM)	tim.pe	tim	tulibertad
Philippines	Globe Telecoms (Web)	internet.globe.com.ph	globe	globe
Philippines	Globe Telecoms (WAP)	www.globe.com.ph	globe	globe
Philippines	Smart	internet	witsductoor	banonoy
Philippines	Sun Cellular	minternet	guest	guest
Poland	ERA	erainternet	erainternet	erainternet
Poland	Heyah	heyah.pl	heyah	heyah
Poland	Orange	internet	internet	internet
Poland	Polkomtel	www.plusgsm.pl	guest	guest
Portugal	Optimus	internet	guest	guest
Portugal	TMN	internet	guest	guest
Portugal	Vodafone (Telecel)	internet.vodafone.pt	guest	guest
Russia	BeeLine	internet.beeline.ru	beeline	beeline
Romania	Connex (Vodafone)	internet.connex.ro	internet.connex.ro	connex
Romania	Orange	internet	guest	guest
Russia	Megafon (dv)	internet.dv	guest	guest

Russia	Megafon (kvk)	internet.kvk	guest	guest
Russia	Megafon (Itmsk)	internet.Itmsk	guest	guest
Russia	Megafon (Moscow)	internet.msk	gdata	gdata
Russia	Megafon (mc)	internet.mc	guest	guest
Russia	Megafon (NWGSM)	internet.nw	guest	guest
Russia	Megafon (Siberia)	internet.sib	guest	guest
Russia	Megafon (UGSM)	internet.ugsm	guest	guest
Russia	Megafon (usi)	internet.usi.ru	guest	guest
Russia	Megafon (Volga)	internet.volga	guest	guest
Russia	Motiv (uses Beeline)	internet.beeline.ru	beeline	beeline
Russia	MTS	internet.mts.ru internet.kuban	mts	mts
Russia	NCC	internet	ncc	[supplied]
Russia	NTC	internet.ntc	guest	guest
Russia	PrimTel	internet.primtel.ru	guest	guest
Saint Lucia	Cable & Wireless	internet	guest	guest
Saint Vincent & the Grenadines	Digicel	wap.digiceloecs.com	wapoecs	wap03oecs
Saudi Arabia	STC	jawalnet.com.sa	guest	guest

SÈnÈgal	Tigo	wap.sentelgsm.com	guest	guest
Serbia- Montenegro	Mobtel Srbija	internet	mobtel	gprs
Serbia- Montenegro	Telekom Srbija	gprsinternet	mts	064
Serbia- Montenegro	Telekom Srbija (MMS service)	mms	mts	064
Serbia- Montenegro	Telekom Srbija (WAP service)	gprswap	mts	064
Singapore	M1	mobilenet	guest	guest
Singapore	SingTel	internet	guest	guest
Singapore	Starhub	shwapint	guest	guest
Slovakia	Eurotel	internet	guest	guest
Slovakia	Globtel	internet	guest	guest
Slovakia	Orange	internet	jusernejm	pasvord
Slovenia	Mobitel (Internet)	internet	mobitel	internet
Slovenia	Mobitel (Internet Pro)	internetpro	mobitel	internet
Slovenia	Simobil	[none]	guest	guest
South Africa	Cell-C	internet	guest	guest
South Africa	MTN	internet	guest	guest
South Africa	Vodacom	internet	guest	guest
South Africa	Virgin Mobile	vdata	guest	guest
Spain	Amena	internet	CLIENTE	AMENA
Spain	Telefonica (Movistar)	movistar.es	movistar	movistar
Sri Lanka	Dialog GSM	www.dialogsl.com	guest	guest

	(contract)			
Sri Lanka	Dialog GSM (pre-pay)	ppwap	guest	guest
Sri Lanka	Mobitel	isp	guest	guest
Spain	Vodafone (Airtel)	airtelnet.es	vodafone	vodafone
Sweden	Tele2, Comviq	isplnk1.swip.net	gprs	internet
Sweden	Tele2 (3G)	internet.tele2.se	wap	wap
Sweden	Telenor (GPRS)	internet.vodafone.net	guest	guest
Sweden	Telenor (3G)	services.vodafone.net	guest	guest
Sweden	Telia	online.telia.se	guest	guest
Sweden	Tre (3G)	data.tre.se	void	void
Switzerland	Orange	internet	guest	guest
Switzerland	Sunrise	internet	internet	internet
Switzerland	Swisscom	gprs.swisscom.ch	guest	guest
Taiwan	Chunghwa Telecom	emome or internet	guest	guest
Taiwan	Far EasTone	fetnet01	guest	guest
Taiwan	KG Telecom	internet	guest	guest
Taiwan	Taiwan Cellular	internet	guest	guest
Thailand	AIS	internet	ais	ais
Thailand	DTAC	www.dtac.co.th	guest	guest
Turkey	Aycell	aycell	guest	guest
Turkey	Telsim	telsim	telsim	telsim
Turkey	Türkcell	internet	gprs	gprs

UAE	Etisalat	mnet	mnet	mnet
UK	3	three.co.uk	guest	guest
UK	Jersey Telecom	pepper	abc	abc
UK	O2 (contract)	mobile.o2.co.uk	web	password
UK	O2 (contract) -faster-	mobile.o2.co.uk	faster	password
UK	O2 (pre-pay)	payandgo.o2.co.uk	payandgo	payandgo
UK	Orange (Pay Monthly)	orangeinternet	user	pass
UK	Orange (Pay and Go)	orangewap	Multimedia	Orange
UK	T-Mobile	general.t-mobile.uk	user	pass
UK	Virgin Mobile	goto.virginmobile.com	user	[space]
UK	Vodafone (contract)	internet	web	webs
UK	Vodafone (pre-pay)	pp.vodafone.co.uk	wap	wap
Ukraine	Djuice	www.djuice.com.ua	igprs	igprs
Ukraine	Jeans	www.jeans.ua	guest	guest
Ukraine	Kyivstar	www.kyivstar.net	igprs	internet
Ukraine	Mobi-GSM	internet.urs	guest	guest
Ukraine	UMC	www.umc.ua	guest	guest
Uruguay	ANCEL	gprs.ancel	guest	guest
Uruguay	CTI	internet.ctimovil.com.uy	ctiweb	ctiweb999

Uruguay	Movistar	webapn.movistar.com.uy	movistar	movistar
USA	Cingular (ex AT&T)	proxy	guest	guest
USA	Cingular (With acceleration)	ISP.CINGULAR	ISPDA@ CINGULARGPRS .COM	CINGULAR1
USA	Cingular (NO acceleration)	ISP.CINGULAR	ISP@ CINGULARGPRS .COM	CINGULAR1
USA	Cingular (non-contract)	WAP.CINGULAR	WAP@ CINGULARGPRS .COM	CINGULAR1
USA	T-Mobile (Internet)	internet2.voicestream.com	guest	guest
USA	T-Mobile (VPN)	internet3.voicestream.com	guest	guest
USA	T-Mobile (non-contract)	wap.voicestream.com	guest	guest
Uzbekistan	Uzdunrobita	net.urd.uz	user	pass
Venezuela	Digitel TIM	gprsweb.digitel.ve	guest	guest

## Appendix 2: Battery Spec.

The electrical specifications below apply for ambient temperature TAMB of 0°C to +45°C

### The Electrical Specification

Item	Description	Specification	Unit	Remark
1	Interface Chipset	N/A	-	-
2	Rated voltage	3.7	V	Typical
3	Rated capacity	920mAh/3.4(Whr)	-	Typical
4	Rated charge current	0.4	A	Typical
5	Charge voltage	4.2 +/- 0.05	V	Maximum
6	Discharge cut-off voltage	3.0	V	Typical
7	Charge method	Constant voltage Current limited	-	-
8	Discharge Current	0.5C (-20°C to 60°C)	-	Typical
9	Internal Resistance	250	mΩ	Maximum
10	Charge Temperature	0°C ~ 45°C	°C	Typical

### Battery Pack Electrical Specification

Item	Description	Specification			Unit
		Min.	Typ.	Max.	
					-
1	Over voltage detection voltage	4.325	4.350	4.375	V
2	Charge enable	4.10	4.15	4.20	V
3	Under voltage detection voltage	2.5	2.6	2.7	V
4	Over current detection current	2.97	3.17	3.36	A
5	Short-circuit detection current	9.9	13.33	16.83	A
6	Short-circuit detection voltage	150	200	250	mV
7	Over voltage delay time	0.8	1	1.2	s
8	Under voltage delay time	90	100	110	ms
9	Over current delay time	5	10	20	ms
10	Short-circuit delay time	160	200	240	μs
11	Recovery charge current	0.5	1	2	mA
12	Over current maximum value	An over current maximum value during the 20ms detection period of 5A won't be damaging the battery pack.			

## FCC Note

15.21

### **Federal Communications Commission (FCC) Statement**

**You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.**

15.105(b)

### **Federal Communications Commission (FCC) Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### **Operation is subject to the following two conditions:**

- 1) This device may not cause interference and
- 2) This device must accept any interference, including interference that may cause undesired operation of the device.

**FCC RF Radiation Exposure Statement:**

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with our specially supplied "bag."

## European Union Notice

If this product has telecommunications functionality, it also complies with the essential requirements of the following EU Directive:

\* R&TTE Directive 1999/5/EC

Compliance with these directives implies conformity to harmonized European standards (European Norms) that are listed in the EU Declaration of Conformity issued by GlobalSat for this product or product family.

This compliance is indicated by one of the following conformity markings placed on the product.

This CE marking is valid for EU non-harmonized telecommunications products

“ **CE 0560** ”

The GPRS and GSM antenna of the product, under normal use condition is at least 20cm away from the body of the user in data link modes.

This equipment should be installed and operated with a minimum distance of 15mm between the radiator and your body.

Your tracking device is a radio transmitter and receiver. It is designed and manufactured not to exceed limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. Government and by the Canadian regulatory authorities. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population.

The exposure standard for cellular communication devices employs a unit of measurement known as the Specific Absorption Rate, or SAR. The tests for SAR have been conducted based on the standard operating position away from body 15mm. Please keep this distance when the device is operating.

# IEEE 1725

- Do not disassemble or open crush, bend or deform, puncture or shred
- Do not modify or remanufacture, attempt to insert foreign objects into the battery, immerse or expose to water or other liquids, expose to fire, explosion or other hazard.
- Only use the battery for the system for which it is specified
- Only use the battery with a charging system that has been qualified with the system per this standard. Use of an unqualified battery or charger may present a risk of fire, explosion, leakage, or other hazard.
- Do not short circuit a battery or allow metallic conductive objects to contact battery terminals.
- Replace the battery only with another battery that has been qualified with the system per this standard, IEEE-Std-1725-2006. Use of an unqualified battery may present a risk of fire, explosion, leakage or other hazard.
- Promptly dispose of used batteries in accordance with local regulations
- Battery usage by children should be supervised.
- Avoid dropping the phone or battery. If the phone or battery is dropped, especially on a hard surface, and the user suspects damage, take it to a service center for inspection.
- Improper battery use may result in a fire, explosion or other hazard.
- For those host devices that utilize a USB port as a charging source, the host device's user manual shall include a statement that the phone shall only be connected to products that bear the USB-IF logo or have completed the USB-IF compliance program.