# **Robustel GoRugged M1000 USB Quick Guide**

## **Chapter 1. Interface Introduction**

### 1.1 Overview



## **1.2 LED Indicators**

#### NET 🌗

After inserting the SIM card into the modem and power on, the LED indicator's status should be as follow when work normally:

Name	Function
NET	Registered to the network: 75 ms on / 3 s off

Note: Please refer to Robustel GoRugged M1000 USB User Guide to get more details about the LED indicators.

### 1.3 USB Interface

#### USB Cable connector (Type A Male to Type A Male)

USB 2.0 Connector

0002		
PIN	Description)	
1	VCC	
2	Data (D-)	
3	Data (D+)	
4	GND	

## 1.4 Grounding the Modem



Grounding and wire routing help limit the effects of noise due to electromagnetic interference (EMI). Run the ground connection from the ground screw to the grounding surface prior to connecting devices. *Note: This product is intended to be mounted to a well-grounded mounting surface, such as a metal panel.* 

## **1.5 Power Supply**



Positive Polarity Negative Polarity

The power supply range is 9 to 36VDC. *Note: Please take care about the polarity, and do not make reverse connection.* 

## Chapter 2. Hardware Installation

## 2.1 Insert/Remove SIM Card

SIM card is used for connecting to cellular network, you need buy SIM card from local operators. *Note:* 

- 1. Don't pull out the SIM holder without pushing the eject button.
- 2. Don't touch the metal surface of the SIM card in case information in the card is lost or destroyed.
- 3. Don't bend or scratch your SIM card. Keep the card away from electricity and magnetism.
- 4. A SIM card set with PIN code cannot be used normally in the gateway without the correct PIN code.
- 5. Make sure to disconnect the power source from your modem before inserting and removing your SIM card.



## 2.2 Connect the External Antenna (SMA Type)

Connect this to **external antennas** with SMA male connector. Make sure the antenna is for the correct frequency as your GSM operator with impedance of 500hm, and also connector is secured tightly.



## 2.3 Power On and Connect with PC

User can use the USB cable to connect the modem's USB Connector to external slave devices / controller / computer. *Note: User needs to install relevant USB driver to PC, which you can find out in the CD.* 



## **Chapter 3. Operate the Modem**

## 3.1 Install USB driver

<sup>1.</sup> In the Control Panel, when you install USB cable to PC, it will popup tab **Other devices** and show M1000 USB's

#### module version.



2. Right-click to enter *Properties* and then click *Update Driver*.

TC65i Prop General	Driver Details					
1	TC65i					
	Device type:	Other devices				
	Manufacturer:	Unknown				
	Location:	Location 0 (Port_#0002.Hub_#0001)				
There is no driver selected for the device information set or element. To find a driver for this device, click Update Driver.						
Update Driver						
		OK Cancel				

3. Click Browse my computer for driver software.



4. Click *Browse* to locate the position of the USB driver which can be found out in the CD, then click *Next*.

🕒 🗕 Update Driver Software - TC65i	
Browse for driver software on your computer	
Search for driver software in this location:	
E:\Products\M1000\M1000 USB\M1000-USB驱动\TC65i Driver 🔹 Brows	e
☑ Include subfolders	
Let me pick from a list of device drivers on my computer This list will show installed driver software compatible with the device, and all software in the same category as the device.	driver
	Next Cancel

5. After succeeding to install the USB driver, it will popup the following window.



6. A simulated virtual COM port which binds to the USB interface of M1000 USB will open after USB driver has been installed. Please check "Device Manager" -> "Modems".



7. Select the USB modem and right-click to enter "Properties". In tab "Modem", you will find that there is simulated COM port which serial software such as secureCRT needs to connect to.

	Details	Power	ower Management	
General	Modem	Diagnostics	Advanced	
ort: COM3				
Speaker volun	ne			
Low	0	= High		
	a. a			
Maximum Data	Canad			
Maximum Port	Speed			
230	400	•		
Dial Control				
Diar Control				
W	/ait for <mark>d</mark> ial tone befo	re dialing		

## 3.2 Start SecureCRT

We can enter AT commands to configure M1000 USB from serial software such as **secureCRT**, you can download this software via link: <u>https://app.box.com/s/arkn6xk1asgs1myvuuie</u>.

- 1. Double click SecureCRT Potable.exe .
- 2. File->Connect->New Session

not connected - SecureCRT	
File Edit View Options Transfer Script Tools W	indow Help
Show dialog on startup	Open in a tab Connect Close
Ready 0,0	0 Rows, 0 Cols

3. Select Protocol as "Serial".

	what type	e of connection do yo	u want to establish?	
	Protocol:	Serial	•	
		SSH2 SSH1 Telnet Telnet/SSL RLogin		
JAI		TAPI		

4. Select the simulated COM port and match the parameters as below, click the "Next" button to finish this session. *Note:* You need to disable "RTS/CTS.

New Session Wizard	Enter the data Port: Baud rate: Data bits: Parity: Stop bits:	a necessary to I COM3 115200 8 None 1	make a s	erial connection Flow Control DTR/DSR RTS/CTS XON/XOFF	
	Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec.	ick Nex	t >		Cancel

5. Configuring the modem with AT command.

Serial-COM3 - Sec	ureCRT						x
File Edit View	Options Transfer	Script Tools	Window	Help			
<b>X</b>	Enter host <alt+r></alt+r>	D B	A 3	6 🕘 🖻 🛠	š 🕈 🛛 🞯 🛛 📰 👘		Ŧ
Serial-COM3 ×							₫ Þ
at OK at +CSQ +CSQ: 22,99 OK ■							<
Ready	Serial: (	COM3, 115200	9, 1 24 F	Rows, 80 Cols	VT100	CAP N	IUM

Note: Please refer to Robustel GoRugged M1000 USB User Guide to get more details about M1000' configuration.