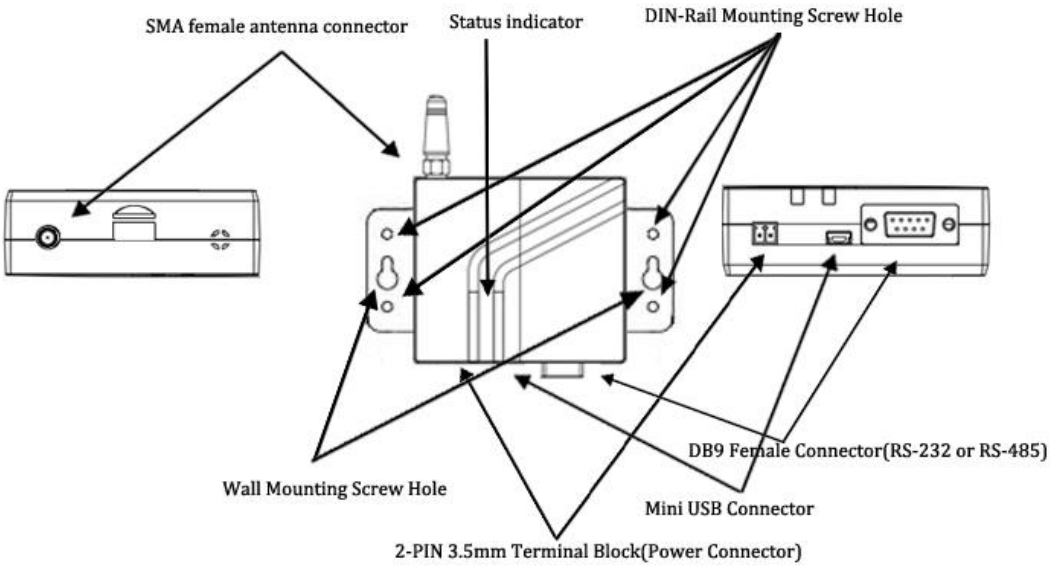
Robustel GoRugged M1000 XP Quick Guide

Chapter 1. Interface Introduction

1.1 Overview



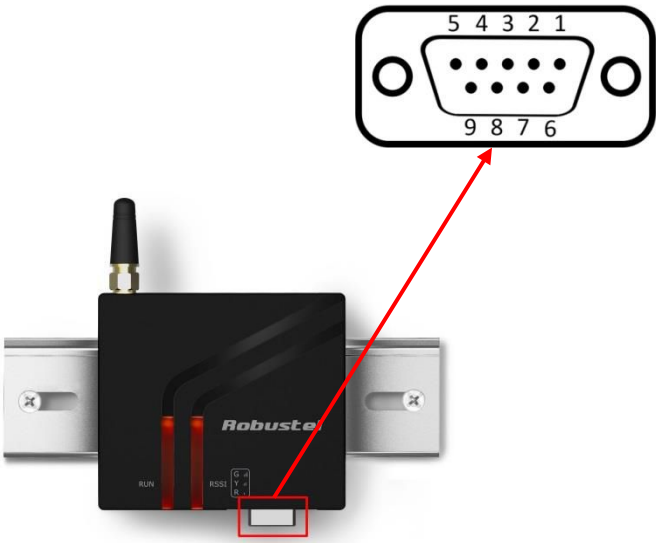
1.2 LED Indicators

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

Name	Status
RUN	System is running normally but without any GSM/GPRS/UMTS connection: **Green & Blinking every 1s**
	GPRS connection established: **Yellow & Blinking every 1s**
RSSI	Green or Yellow

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

1.3 PIN assignment



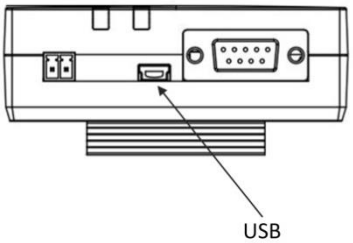
DB9 Female Connector

PIN	RS232	RS485 (2-wire)	Direction
1		Data+ (A)	-
2	RXD		M1000 XP → Device
3	TXD		Device → M1000 XP
4			-
5	GND		-
6		Data- (B)	-
7	RTS		Device → M1000 XP
8	CTS		M1000 XP → Device
9	+5V Output		-

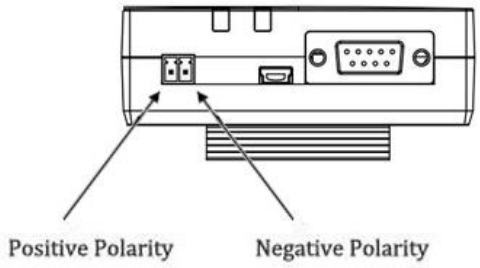
1.4 USB Interface

USB interface can be used for configuration, firmware upgrade and power supply. When USB interface of M1000 XP is used for configuration as well as power supply, voltage/current output of USB interface which connects to M1000 XP's USB interface shall reach to 1A/5V.

Note: *Normally, voltage/current output of laptop's USB 2.0 interface is 0.5A/5V. So when you use USB interface for configuration, you should use power input interface for power supply (please check section* ***1.5 Power Supply****).*



1.5 Power Supply



The power supply range is 6 to 18 VDC.

Note*: Please take care about the polarity, and do not make reverse connection.*

Chapter 2. Hardware Installation

2.1 Insert/Remove SIM Card

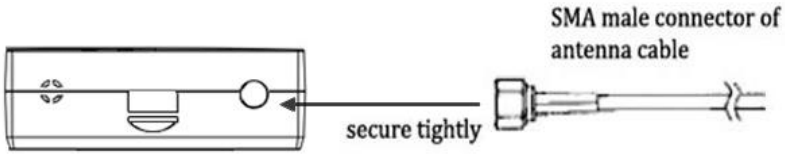
SIM card is used for connecting to cellular network, you need buy SIM card from local operators.

Note:

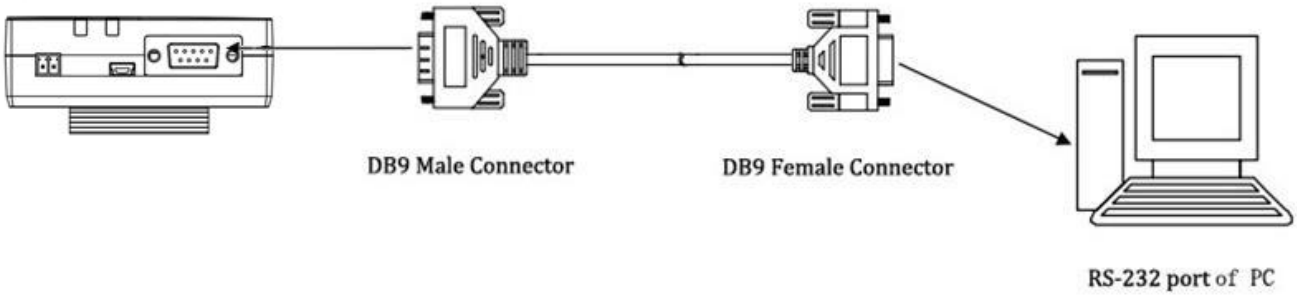
1. *Don't touch the metal surface of the SIM card in case information in the card is lost or destroyed.*
2. *Don't bend or scratch your SIM card. Keep the card away from electricity and magnetism.*
3. *A SIM card set with PIN code cannot be used normally in the gateway without the correct PIN code.*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

2.2 Connect the External Antenna (SMA Type)

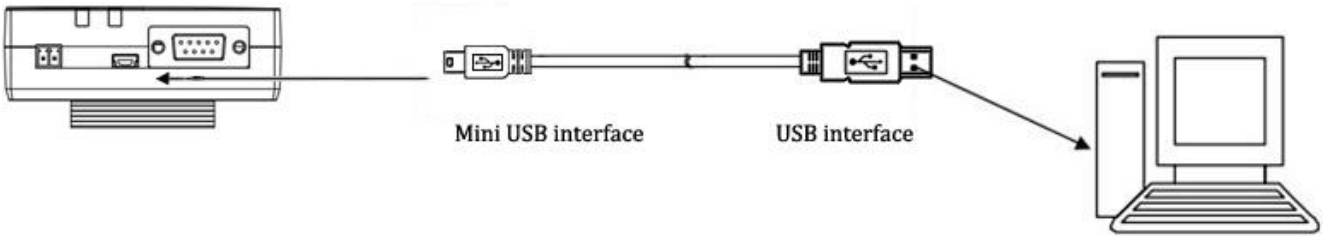
Connect this to an external antenna with SMA male connector. Make sure the antenna is for the correct frequency as your GSM/GPRS/UMTS operator with impedance of 50ohm, and also connector is secured tightly.



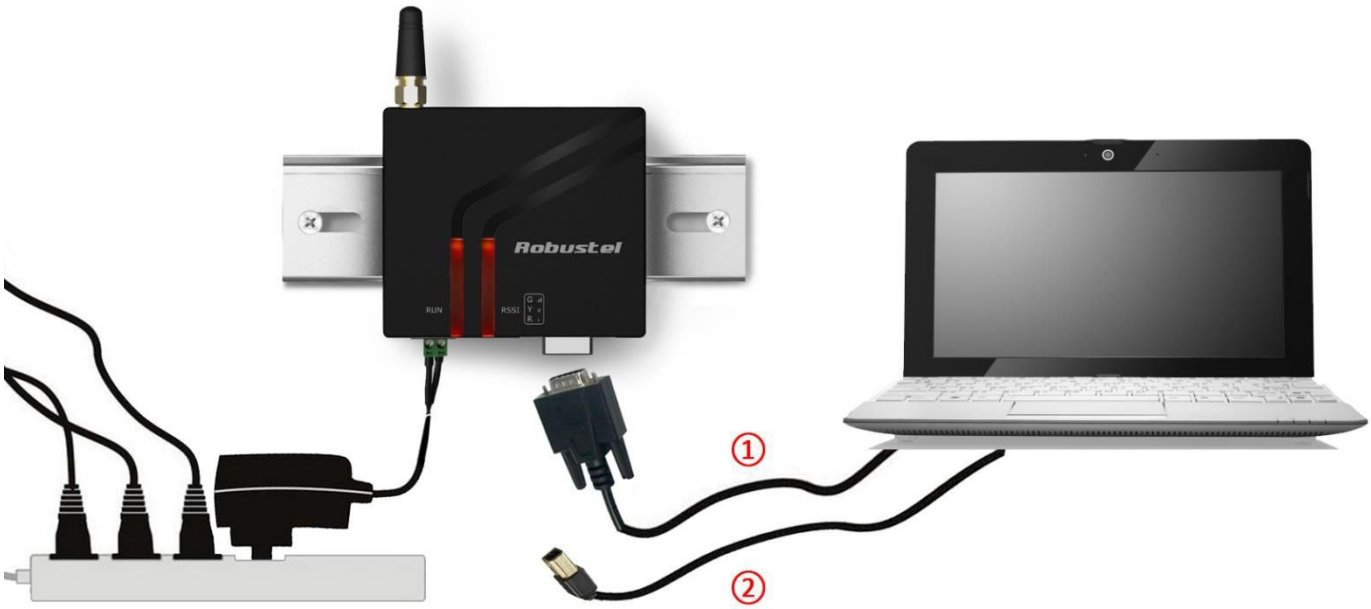
2.3 Connect the Gateway to External Device



User can use the USB cable to connect the gateway's Mini USB Connector to external controller / computer.



2.4 Power On and Connect with PC



Note: *USB interface only can be used for configuration, firmware upgrade and power supply.*

Chapter 3. Operate the modem

3.1 M1000 XP Configurator Overview

M1000 XP Configurator is a PC-based configuration software tool for managing and configuring Robustel M1000 XP gateway. With a full graphics mode and Windows-based environment, even first time users will find it easy to learn how to use this new software tool.

Note*: M1000 XP Configurator can be used with Windows 2000/XP/Vista/7 32/64-bit operation systems.*

3.2 Management via RS-232/USB port

1. Connect the RS-232 port or Mini USB port of the gateway to a host PC, and then power on the gateway.

   Note*:*

   1. The RS-232 connector uses standard PINOUT. A direct male DB9 to female DB9 cable can be used to connect

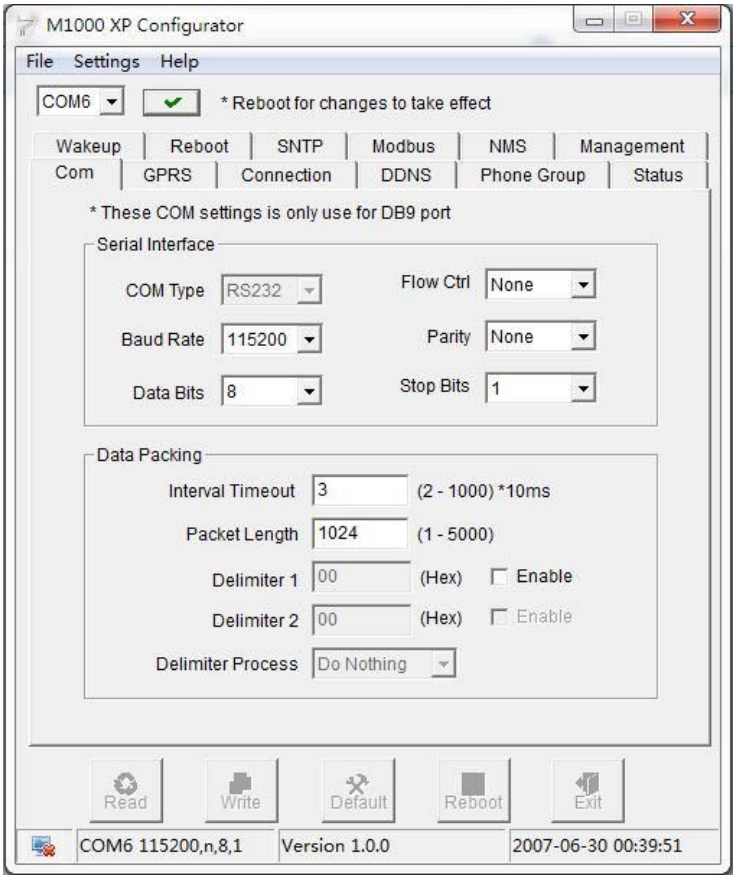
to a PC's serial port.

2. *For the PC which connects to M1000 XP's USB port at the first time, user needs to install the serial to USB driver in it. The driver can be found in the attached CD.*

2. Double click "M1000 XP Configurator.exe" to start the software.

3. Select correct COM port, then click button. After that you can see the popup windows "Operation Succeed".

4. Configuring the modem via M1000 XP configurator.



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