Robustel GoRugged R3000 Lite Quick Guide

Chapter 1. Interface Introduction

1.1 LED Indicators



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

Name	Color	Status			
RUN	Green	Blinking			
PPP Green	PPP connection is up: On				
	P Green	PPP connection is down: Off			
RSSI	Green	At least 2 bars			

Note: Please refer to Robustel GoRugged R3000 Lite User Guide to get more details about the LED indicators.

1.2 PIN assignment



DB9 Female Connector

PIN	Debug	RS232	RS485	Direction
			(2-wire)	
1			Data+ (A)	-
2		RXD		R3000 Lite \rightarrow Device
3		TXD		Device \rightarrow R3000 Lite
4	DRXS			Device \rightarrow R3000 Lite
5	GND	GND		-
6			Data- (B)	-
7		RTS		Device \rightarrow R3000 Lite
8		CTS		R3000 Lite \rightarrow Device
9	DTXD			R3000 Lite \rightarrow Device

1.3 USB interface

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USB interface is used for batch firmware upgrade, cannot used to send or receive data from slave devices which with USB interface. Users can insert an USB storage device, such as U disk or hard disk, into the router's USB interface, if there is configuration file or firmware of R3000 Lite inside the USB storage devices, R3000 Lite will automatically update the configuration file or firmware.

1.4 Reset Button



Function	Operation		
Reboot	Push the button for 5 seconds under working status.		
Restore to factory	Push the button for 60 seconds once you power on the		
default setting	router until all the three LEDs at the left side (RUN,		
	PPP, USR) blink at the same time for 5 times.		

1.5 Ethernet port



Indicator Color S		Status	Description	
Current la directeur	Green	Off	10 Mbps mode.	
Speed Indicator		On	100 Mbps mode.	
Link Indicator	Yellow	Off	Connection is down.	
		On	Connection is up.	
		Blink	Data is being transmitted	

Chapter 2. Hardware Installation

2.1 Insert SIM Card

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



- 1. Unscrew the screw and remove the cover.
- Insert SIM card into one of the SIM card slot (When SIM card is correctly inserted you will hear "a cracking sound").
- 3. Screw the cover.

Note:

- 1. Don't forget screw the cover for again-theft.
- 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. Make sure to disconnect the power source from your router before inserting and removing your SIM card.

2.2 Connect Antenna

Connect router to an external antenna with SMA male connector. Make sure the antenna is for the correct frequency as your GSM/3G/4G operator with impedance of 50ohm, and also connector is screwed tightly.



2.3 Power On and Connect with PC



Chapter 3. Initial Configuration

The router can be configured through your web browser. A web browser is included as a standard application in the following operating systems: Linux, Mac OS, Windows 98/NT/2000/XP/Me/Vista/7/8, etc. The product provides an easy and user-friendly interface for configuration.

There are various ways to connect the router, either through an external repeater/hub or connect directly to your PC. However, make sure that your PC has an Ethernet interface properly installed prior to connecting the router. You must configure your PC to obtain an IP address through a DHCP server or a fixed IP address that must be in the same subnet as the router. The best and easiest way is to configure the PC to get an IP address automatically from the router using DHCP. If you encounter any problems accessing the router web interface it is advisable to uninstall your firewall program on your PC, as these tend to cause problems accessing the IP address of the router.

3.1 Configuring PC in Windows

- 1. Go to **Control Panel\Network and Internet\Network Connections**. In the Control Panel, double-click Network Connections.
- 2. Double-click Local Area Connection.



3. In the Local Area Connection Status window, click Properties.

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4. Select Internet Protocol (TCP/IPv4) and click Properties.



5. Select the Obtain an IP address automatically and Obtain DNS server address automatically radio buttons.

	Alternate Configuration				
You car this cap for the	n get IP settings assigned auton ability. Otherwise, you need to appropriate IP settings.	natically if ask your r	your n networ	etw <mark>o</mark> rk 'k admir	supports iistrator
() O	otain an IP address automaticall	y			
O Us	e the following IP address:				
IP.ac	ldress:	1.15			
Subr	iet mask:	102	3	2	
Defa	ult gateway:	(4)	- 34	i.	
() ()	otain DNS server address autom	atically			
- O Us	e the following DNS server add	resses:			
Prefe	erred DNS server:)	1	- <u>(</u>	
Alter	nate DNS server:		3	,	
Πv	alidate settings upon exit			Adv	anced

6. Click OK to finish the configuration.

3.2 Connect Router with Internet

 Open IE browser, input the default IP address http://192.168.0.1 -> Username: admin; Password: admin -> Click "login".

User authentication required. Login please.					
Username:	admin				
Password:	••••				
Language:	English 💌				
Please enter your login	username and password.				
	Login				

Note: Before configuring your router, you need to know the following default settings.

Item	Description
Username	admin
Password	admin
Ethernet	192.168.0.1/255.255.255.0, LAN mode
DHCP Server	Enabled.

2. After succeed to login, go to tab "Cellular WAN" --> enter relevant correct ISP settings, such as APN, Username,

Password, Dialup No. (you can check these information from local ISP) --> click "Apply" -> click "Save" and "Reboot".

				Logged in as: ad
atus	Basic Adva	inced ISP Profile		
System	Cellular Settings			
Vetwork		SIM1	SIM2	
Route	Status:	Not inserted	Ready	
PN	Network Provider Type:	Aut o 🗸 🗸	china-mobile 💌	
ervices	APN:		3gnet	
vent/Log	Username:			
onfiguration	Password:			
ingaration	Dialup No.:		*99***1#	
ink Management	PIN code request:	Set PIN Code	Set PIN Code	
Cellular WAN	Constanting Made			
Ethernet	Connection Mode			
Serial	Connection Mode:	Always online 🛛 👻		
JSB	Redial Interval (s):	30		
NAT/DMZ	Max Retries:	3		
Firewall	Dual SIM Policy			
P Routing	Main SIM Card:	SIM1 🗸		
ynDNS	🗹 Switch to backup SIM	card when connection fails		
Psec	Switch to backup SIM	card when roaming is detected		
OpenVPN	Switch to backup SIM	card when data limit is exceeded	d	
GRE	Switch hack Main SIM	card after timeout		
.2TP			A	pply Cancel
חדחר	•			

Note: After configure R3000 Lite with new settings, you need to click "Apply" -> "Save" -> "Reboot".

 After above correct configuration, R3000 Lite should succeed to establish PPP connection. You can go to tab "Configuration" -> "Status" -> "System" to check whether "PPP" indicator is "ON" (ON means PPP connection established).

Status	System	
System	LEDs Information	
Network	RUN: GREEN/BLINK	RSSI: GREEN/ON
Route	PPP: GREEN/ON	NET: YELLOW/ON
PN	USR: OFF	SIM: GREEN/ON
ervices	Pouter Information	
vent/Log	Device Model:	R3000-3P
onfiguration	Serial Number:	00300913080058
ink Management	Device Name:	Cellular Router
ellular WAN	Firmware Version:	1.01.00-sub-131118
thernet	Hardware Version:	1.01.02
erial	Kernel Version:	2.6.39-2
SB	Radio Module Type:	HE910-D
AT/DMZ	Radio Firmware Version:	12.00.023
rewall	Uptime:	0 day 00:00:34
oS	CPU Load:	07.75%
P Routing	RAM Total/Free:	123.07MB/73.51MB(59.73%)

4. R3000 Lite can connect to Internet now.