RD06/LORA Gateway 2G/4G/WIFI Configuration Manual V2.1

1. USB RS232 Cable



please connect our LoRa Gateway to computer via our RS232 cable. The smaller USB port connects with the LoRa Gateway USB port, the bigger USB port connects with the computer.

2. Driver Installation Step

1) PL-2303 driver is for RS232 configuration cable,



Please install (XP/Vista/Win7/Win8/Win10).

2) Connect the configuration cable to the computer.

under windows systems

 Go to desktop, choose My Computer-> click right button -> choose Manager-> System Tools -> Device Manager -> Ports, you will find the port which



3. Configure Software

- 4) Connect LoRa Gateway with computer via the configuration cable.
- 5) Run the configuration software 🔶 TZConfig

 Gateway Configuration Software v1.0.18 Quick Advanced DFU Exit 		·		×
Device Information Device ID: Device Type: Device Type: Firmware Ver: Connect Support Device : RD06, RD06(4G), RD06(WiFi), RD07, RD07(4G), RD07(WiFi),Firmware Versite				
Ready	COM3,115200	De	ebug Mo	de

(3) connect

After the Gateway is powered on, click Connect, and the following picture interface will appear after the connection is successful.



(4) Set Gateway (For the 2G/4G Gateway version) :

After the connection is successful, the configuration software will automatically jump to the shortcut setting interface, where you can set the APN of the SIM card. After setting the APN, click "Save", and it will prompt normal use.

Gateway Configuration Software V1.0.18	- L X
(1/1)APN Setting	
ADN: cmpet	Tips: APN refers to the access method through which the
APN. Chinet	device accesses the network. You can consult the local mobile operator for the setting of related parameters. If the SIM
	card does not specify APN, you can skip the setting and start to use it directly
	Save
Ready	COM3,9600 Debug Mode
🌸 Gateway Configuration Software v1.0.18	- 🗆 X
Device Quick Advanced DFU Exit	
(1/1)APN Setting	
APN: cmnet	Tips:APN refers to the access method through which the device accesses the network. You can consult the local mobile
	operator for the setting of related parameters. If the SIM
	to use it directly
Tips	×
Set up succi	essfully! you can start to use it directly.
	确定
	Save

If To modify more parameters, please click Advanced Settings.

🔅 Gateway Configuration Software	v1.0.18					1 <u></u> 1		×
Device Quick Advance	ted DFU	Exit						
	(1)Device I	nformation						
1, Device Information	Device ID:	864999046364988						
2、Server & Network Settings	(2)Server & N	etwork Settings						
3, Tag Settings 4, RS485 Settings	Data Transfer I	Protocol		APN Setting			?)
5, Other Settings	TCP/IP	O HTTP		APN				-
	TCP/IP Transfe	er Protocol		Name				
	• TCP () UDP		Password				
	IP & Port			PDP Type	IP ~			
	IP/Domain	t-gateway.tzonedig	Support Domain, IP	Auth Type	РАР *			
	Port	54929	1-65535					
	l	Dered.						
Device Firmware Upgrade		Kead	Save		COM3 115200	D	ebua Ma	nde

(5) Set Gateway (For the WIFI version) :

After the connection is successful, the configuration software will automatically jump to the shortcut setting interface, the default is Ethernet, if Ethernet transmission is required, you do not need to set, if WIFI transmission is required, please select WIFI and set the WIFI name and password, click Save after setting, it will prompt normal use.

Gateway Configuration Software v1.0.18		1 <u>000</u>		×
Device Quick Advanced DFU Exit				
(1/2)Transfer Mode				
© <u>[TAN</u> O WIFI				
Save				
Ready	COM3,9600	De	bug Mo	de

🐵 Gateway Configuration Software v1.0.18	2003		×
Device Quick Advanced DFU Exit			
(1/2)Transfer Mode (2/2)WiFi Setting	7		
○ LAN WiFi Name: TZONE1 ● WiFi WiFi Password: tzone2014]	
	_		
Caus			
Ready COM3,960	00	Debug M	ode

If To modify more parameters, please click Advanced Settings.

Gateway Configuration Softwar	e v1.0.18							×
Device Quick Advan	(1)Device In	Exit						_
1, Device Information 2, Server & Network Settings	Device ID: (2)Server & N	652184907900143 etwork Settings						
3, Tag Settings 4, Other Settings	Data Transfer I	Protocol		Transfer Mode				_
	TCP/IP			◯ LAN	ViFi			
	TCP/IP Transf	er Protocol		WiFi Name:	TZONE1			
	IP & Port			WiFi Password:	tzone2014			
	IP/Domain Port	t-gateway.tzonedig 54929	Support Domain, IP 1-65535					
		Read	Save					
Ready					COM3,9600	D	ebug M	ode

1. Configure the server and network

2G/4G Gateway version

(1) Device Information

Device ID: transmission is TCP/IP

(2) GPRS Transfer protocol TCP/IP:Set GPRS transmission is TCP/IP HTTP:Set GPRS transmission is HTTP

(3) TCP/IP Transfer protocol

TCP: TCP model UDP: UDP model

(4) Set server IP and port

IP/domain: IP:xxx.xxx.xxx,(domain)www.xxx.com **Port:** server port

(5) Set APN

APN:APN for GPRS function of GSM provider (max 27 characters)
User Name: Some GSM providers require GPRS/4G login with user name. If no name in need, please keep in blank (max 27 characters)
Password: Some GSM providers require GPRS/4G login with password. If no password in need, please keep in blank (max 27 characters).

(6) Data interval

Sending data interval: The GPRS data time interval[10,999]/s

WIFI Gateway version

(7) GPRS Transfer protocol TCP/IP:Set GPRS transmission is TCP/IP

(8) TCP/IP Transfer protocol

TCP: TCP model UDP: UDP model

(9) Set server IP and port

IP/domain: IP:xxx.xxx.xxx,(domain)www.xxx.com **Port:** server port

(10) Transfer modeLAN: Transmit data through the network port lineWIFI:Transmit data over WIFI

(11) Set WIFI

WIFI Name: Name of the WIFI to be connected (max 27 characters) **WIFI password :** password of the WIFI to be connected (max 27 characters))

2.TAG Settings

Add: Add a Gateway Type: TAG07/TAG07B/TAG08/TAG08B; Channel: Select channel [1,100] TAG ID:Gateway ID,8 characters Delete: delete a/all Gateway

3.RS485 Setting (The WIFI Gateway version has no Settings)

Serial port setting

Baud rate[1200,9600,19200,38400,57600,115200] 9600 (default) Data bits 0-8bit (default) 1-9bit; Stop bit 0-0.5bit, 1-1bit (default) 2-1.5bit, 3-2bit Parity digit 0-null (default) 1-Even parity, 2-Odd parity

A. Work mode

Active transport: RS485 initiative to send data Modbus:When the RS485 receives the request, and then send data

B. Address

Address:Set RS485 address of the LoRa Gateway

C. Other

Reader time:RS485 send once sensor data within this time period, no matter LoRa Gateway receive this sensor many times[0-3600]/s,only use in RS485 Report automatically mode

Tag offline time:LoRa sensor will think Gateway is offline if it do not receive this Sensor within this time period [0-86400]/s,only use in RS485 modbus mode

4. Other setting

Clear Flash: Clear history in the flash memory.

Factory Reset: It will set all parameters to factory default value.

Debug mode

In debugging mode, Gateway parameters can be configured and Gateway logs can be viewed by commands.

1) Click to enter debug mode:

 Gateway Configuration Softwar Device Quick Advan 	e v1.0.18	Exit					×
	(1)Device I	nformation					
1, Device Information 2, Server & Network Settings	Device ID: (2)Server & N	652184907900143 letwork Settings					
3, Tag Settings 4, Other Settings	Data Transfer	Protocol		Transfer Mode			_
	TCP/IP TCP/IP TCP/IP Transf	er Protocol		● LAN ○	WiFi		
	IP & Port	J 00F					
	IP/Domain Port	t-gateway.tzonedig 54929	Support Domain, IP				
		Read	Save				
Ready					COM3,9600	Debug i	1ode

2) In debug mode, the Gateway parameters are configured directly by commands. Note: After writing the commands, please click "send". After sending (Please refer to the command list for more detailed).

🐵 Gateway Configuration Software v1.0.18				- <u></u>		×
	>					
Device Quick Advanced DFU	Exit					
Debug Mode	Log file location:	D:\工作资料\小林\RD06\配置软件\新配置软件\	配置软件\Gateway C	onfigura	tion S	oftv
Packet over						^
Interval GPRS						
AT_power_ON2>AT_power_ON3						
CMD bytes: 0E						
*00000,018,5#						
ComdType:018(SETGPRSINTERVAL)						
timeinterval:5						
Write exflash Command						
CMD OK03						
						~
Command *000000,018,5#		Send			Paus	e
Debug Mode			COM3,9600	Exit De	ebug M	lode

3) View the Gateway log in debug mode

After 1 minute, the Gateway will exit the configuration mode and enter the Gateway log mode. Machine data can be viewed, and log reports are stored in the log file.

Gateway Configuration Software v1.0.18			_ 0	×
	- >			
Device Quick Advanced DFU	Exit			
Debug Mode	Log file location:	D:\工作资料\小林\RD06\配置软件\新配置软件\配	習文件\Gateway Configuratio	on Softv
Packeting GPRS				^
25 10				
Save in Queue!! CRC:E6 79 80 00 08 A0 00 00 08	00 00			
12 TZ40 \$\$ 0406 3.00 864999046364988 2022/05/	30 14:55:29 0 8,AA,	11000000,0,00000001,3.98,12.36 0 0079 143	31	
Packet over				
Interval GPRS				
AT_power_OFF_Wait1>AT_ON_Wait1				
AT_ON_Wait1>AT_none				
AT_none>AT_power_ON1				~
Command *000000,018,5#		Send	F	Pause
Debug Mode			COM3,9600 Exit Deb	ug Mode

4) Click to exit debug mode

Click to exit debugging mode to return to the home page.

🌞 Gateway Configura	tion Software v1.0.18						×
		\rightarrow					
Device Quick	Advanced DFU	Exit					
Debug Mode		Log file location:	D:\工作资料\小林\RD06\配置软件\新配置软件	\配置软件\Gateway(Configu	uration	Softv
							0
AT_SW_Init>AT_SW	/_Init_Wait						
AT SW Init Wait>/	NT SW Init						
AT+IPR=115200	N_SW_INC						
ок							
AT_SW_Init>AT_SW	/_Init_Wait						
AT_SW_Init_Wait>4	T_SW_Init						
AT+CCID	n0 - 09 m0 - 1999 m0						
+CME ERROR: SIM no	ot inserted						
Command	*000000,018,5#		Send	-	_	Pau	ise
Debug Mode				COM3,9600	Exit	Debug	Mode

DFU

can use the configuration software to upgrade the device firmware

1) Select the bin file and click "Start".

🌸 Gateway Configu	ration Software v1.0	1.18		1000		×
Device Qui	ck Advanced					
		- · · · · · · · · · · · · · · · · · · ·				
		Device Firmware Upgrade				
	Upgrade File:	C:\Users\lisa\Downloads\RD version\RD07_4G_V3.00.bin	Start			
	Tips:Don't close the device to res	the program or disconnect the device during the upgrade. After the upgrade is co tart before connecting to it.	omplete, wait for			
Ready			COM3,9600	De	ebug Mo	ode

2) Firmware upgrade.

Gateway Configuration Software v1	.0.18	1 <u>890</u>		×
Device Quick Advanced				
Dence Quer Advanced				
	Device Firmware Upgrade			
Unevado Filos	Civilian Bini Davidada D. vania DD07, 4C, V2.00 kin			
opgrade File:	C: \users\lisa\ubownioads\kb version\kbov_46_vs.oo.bin			
Convert Days	22%			
Tips:Don't close the device to re	e the program or disconnect the device during the upgrade. After the upgrade is complete, wait for istart before connecting to it.			
Device Firmware Upgrade	COM3,115200	D	ebug Mo	ode

3) Device firmware upgrade successfully.

🖗 Gateway Configuration Software v1.0.18		-		X
Device Quick Advanced DFU Exit				
De ^{Tips} × e				
Device firmware upgrade successfully!				
Upgrade File: C:\Users\lisa\	Start			
福定 制度 化乙酸 化乙酸 化乙酸 化乙酸 化乙酸 化乙酸				
Tips:Don't close the program or disconnect the device during the upgrade. After the upgrade is of the device to restart before connecting to it.	omplete, wait for			
Device Firmware Upgrade	COM3,115200	Deb	oug Mo	de

4) If the device cannot be connected or upgraded due to any abnormal operation during the upgrade, please contact us.