

Industrial 4G module

I-8213W-4G Series

User Manual

Version 1.3 AUG 2023

Service and usage information for



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1. Introduction

The I-8213W-4G series are industrial grade 4G LTE modules with GPS. While I-8213W-4GE supports FDD LTE B1/B3/B5/B7/B8/B20 bands, I-8213W-4GC supports FDD LTE B1/B3/B8 and TDD LTE B38/B39/B40/B41 bands.

For WCDMA, the I-8213W-4G supports 850/900/2100 MHz as well as GSM 850 MHz, EGSM 900 MHz, DCS 1800 MHz, PCS 1900 MHz, and these modules can be used to collect remote data over a convenient 2G/3G/4G network, including a variety of traffic meters, or for timely remote control.

These modules also have built-in TCP/IP stacks that can be used to connect to the Internet or send and receive SMS messages with simple control commands.

With the features of I-8213W-4G, the systems can be SMS, GPRS and 4G connection applications with our PAC series like WinPAC-8000, LinPAC-8000 or XP-8000.



2. Hardware Specifications



2.1. Specifications

Models	I-8213W-4GE	I-8213W-4GC	
4G System			
Frequency Band(FDD)	B1/B3/B5/B7/B8/B20	B1/B3/B8	
Frequency Band(TDD)		B38/B39/B40/B41	
3G System			
Frequency Band(WCDMA)	850/900/2100 MHz	900/2100 MHz	
Frequency Band(TDSCDMA)		1900/2100 MHz	
GSM/GPRS System			
Frequency Band	850/900/1800/1900 MHz	900/1800MHz	
GPRS connectivity	GPRS class 33; GPRS station class B	GPRS class 12; GPRS station class B	
DATA	GPRS (Kbps): max. 107 (DL) / 85.6 (UL) WCDMA (Kbps): max. 384 (DL) / 384 (UL) DC-HSPA (Mbps): max. 42 (DL) / 5.76 (UL) LTE-FDD (Mbps): max. 150 (DL) / 50 (UL) LTE-TDD (Mbps): max. 130 (DL) / 50 (UL)	GPRS (Kbps) : max. 107 (DL) / 85.6 (UL) DC-HSPA+ (Mbps): max. 42 (DL) / 5.76 (UL) TD-SCDMA(Mbps): max. 4.2 (DL) / 2.2 (UL) CDMA2000 EVDO(Mbps): max. 3.1 (DL) / 2.2 (UL) LTE-FDD (Mbps): max. 150 (DL) / 50 (UL) LTE-TDD (Mbps): max. 130 (DL) / 30 (UL)	
Coding Schemes	CS 1, CS 2, CS 3, CS 4		
SMS			
SMS	MT, MO, CB, Text and PDU	mode	
Comm. Interface			
USB	USB 2.0 (high speed)		
GPS Interface	2		

Support Channels	32	
Protocol Support	NMEA 0183	
LED Indicators		
Power	Red color	
GPRS	Yellow color	
Power		
Frame Ground Protection	ESD, Surge, EFT, Hi-Pot	
Power Consumption	Idle: 0.15 A @ 5 VDC; Data Link: 0.2 ~ 1.62 A (peak) @ 5 VDC	
Mechanical		
Casing	Plastic	
Dimensions (W x L x H)	30mm x 85mm x 114mm	
Environment		
Operating Temperature	-25°C ~ +75 °C	
Storage Temperature	-30°C ~ +80 °C	
Humidity	5~95% RH, non-condensing	

2.2. I-8213W-4G Features

- The I-8213W-4GE supports FDD LTE B1/B3/B5/B7/B8/B20 bands while the I-8213W-4GC supports FDD LTE B1/B3/B8 and TDD LTE B38/B39/B40/B41 bands. 850/900/2100 MHz is supported by the WCDMA and 850 MHz is supported by GSM, EGSM 900 MHz, DCS 1800 MHz, PCS 1900 MHz. WCDMA supports 850/900/2100 MHz and GSM 850 MHz, EGSM 900 MHz, DCS 1800 MHz, PCS 1900 MHz.
- Designed for FDD LTE, WCDMA, GPRS and SMS Applications
- Supports TCP Server, TCP Client, UDP Client Connection stack from 4G, 3G or GPRS
- Supports Standard AT Commands
- Supports 32-channels GPS and NMEA v0183 v3.01
- Supports XP-8000, WinPAC-8000, LinPAC-8000, ViewPAC

3. Application architecture

Application 1

Industrial 4G LTE module



Application 2



Application

Control Center

4. Hardware Appearance

• Pin Assignments



4.1. Hardware Dimensions







There are two LED indicators to help users to judge the various conditions of I-8213W-4G. The description is as follows :

A. PWR(Red) : The PWR LED can indicate the status of Power module.

Power normal	Power fail
Always ON	Always OFF

B. 4G (Yellow) : The modem LED can indicate the status of GSM module.





4.3. Hardware Installation

• I-8213W-4G Installation



- 1. Install the I-8213W-4G on the host computer.
- 2. Insert SIM card
- 3. Connect USB
- Antenna Installation



5. USB Driver Installation

5.1. Example: XP-8000 (Microsoft Windows OS)

Step 1 : Double Click "I-8213W-4G USB driver V1.00.exe" to install the driver.

Step 2 : Click "Next".

Step 3 : Click "Next"

elect Destination Location	3	
Where should I-8213W-4G be	installed?	-
Setup will install I-82	13W-4G into the following folder.	
To continue, click Next. If you	u would like to select a different fo	lder, click Browse.
C:\ICPDA5\I-8213W-4G		Browse
At least 1.2 MB of free disk sn	bace is required.	

Step 4 : Select "Install"

Setup - I-8	213W-4G	
Ready to In Setup is no	stall w ready to begin installing I-8213W-4G on you	r computer.
Click Insta change an	l to continue with the installation, or click Back i y settings.	f you want to review or
Destinati C:\IC	on location: PDAS\I-8213W-4G	
<		<u>×</u>
	< <u>B</u> ack	Install Cancel

Step 5 : Click "Finish"



Step 6 : Connect the USB of I-8213W-4G with the PC

Step 7 : The "Found New Hardware Wizard" window for "Quectel LTE Module" will pop-out. Please click "Next".



Step 7-1 : Click "Continue Anyway".

Hardwa	re Installation
1	The software you are installing for this hardware: I-8213W-4G USB Modem has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.) Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
	Continue Anyway STOP Installation

Step 7-2 : Click "Finish" if you got a success message.



Step 7-3 : Click "Back" if you got a fail message, and then choose "Install from a list or specific location" in all install steps.



Step 7-4 : Click "Browse" to choose your installing folder, and Click "Next".

rdware Update Wizard
Please choose your search and installation options.
Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppu CD-BDM)
Include this location in the search:
C:\ICPDAS\I-8213W-4G\X86 Browse
Channel Min antian to colore the device driver from a first Minister device the
the driver you choose will be the best match for your hardware.
Real Dealer Concert
C Back Next > Cancel

Step 8 : The "Hardware Installation" window for "I-8213W-4G Wireless Ethernet Adapter" will pop-out. Please click "Continue Anyway".



Step 9 : The "Hardware Installation" window for "I-8213W-4G USB AT Port" will pop-out. Please click "Continue Anyway".



Step 10 : The "Hardware Installation" window for "I-8213W-4G USB NMEA Port" will pop-out. Please click "Continue Anyway".



Step 11 : The "Hardware Installation" window for "I-8213W-4G USB DM Port" will pop-out. Please click "Continue Anyway".



Step 12 : Finish the all install steps. Please open "Device manager", and you will found new 8 items in your computer.



5.2. Example: LinPAC (Linux OS)

• i-8213W-4G Driver Installing

Linux can install the driver module "option" for I-8213W-4G.Please refer to the following Linux command steps.

Step 1 : Enter the "modprobe option" command

Step 2 : And "echo "2c7c 0125" > /sys/bus/usb-serial/drivers/option1/new_id"

Step 3 : After the installation is complete, ttyUSBn will be displayed.

🚰 root@golden: ~	
root@icpdas:~#	modprobe option
root@icpdas:~#	
root@icpdas:~#	echo "2c7c 0125" > /sys/bus/usb-serial/drivers/option1/new id
root@icpdas:~#	
root@icpdas:~#	dmesg grep ttyUSB
[107.252859]	usb 2-1.2: GSM modem (1-port) converter now attached to ttyUSB0
[107.254599]	usb 2-1.2: GSM modem (1-port) converter now attached to ttyUSB1
[107.256577]	usb 2-1.2: GSM modem (1-port) converter now attached to ttyUSB2
[107.260277]	usb 2-1.2: GSM modem (1-port) converter now attached to ttyUSB3
[107.261822]	usb 2-1.2: GSM modem (1-port) converter now attached to ttyUSB4
root@icpdas:~#	
root@icpdas:~#	
2252	

Please refer to below the interface information of i-8213W-4G:

Port Name	Interface Function
ttyUSB1	GPS/GNSS interface
ttyUSB2	AT Command interface
ttyUSB3	2G/3G/4G system interface

• i-8213W-4G Driver Uninstalling

Step 1 : If you need to uninstall it, enter the command "modprobe -r option"

6. GPRS connection



6.1. Example: XP-8000 (Windows Embedded Standard 2009)

- Hardware requirement
 - 1) I-8213W-4G
 - 2) CA-USB18 USB CABLE
 - 2) XP-8000



WinPAC-8000





I-8213W-4G

Create a new modem connection

Step1. Control Panel \rightarrow Double-click "Phone and Modem"



Step2. View "Modems" Options \rightarrow Tap "Properties" on "I-8213W-4G USB Modem".

G V Republic Control Panel > All Control Panel Items >	 ✓ ✓
Adjust your computer's settings	View by: Large icons 🔻
Y A A Phone and Modem	AutoPlay
B Dialing Rules Moderns Advanced	n 🛐 Color Management
The following modems are installed:	Default Programs
COM34	Devices and Printers
🦉 C	Folder Options
🗼 F	Indexing Options
🚱 II	Location and Other Sensors
	Notification Area Icons
Properties	Personalization
OK Cancel Apply	Programs and Features -

Step3. Check that the Maximum Port Speed in the Modem tab is 115200, if not, set it to 115200.

I-8213W-4G USB	Modem Prope	erties		— ×
Driver	Details		Power Management	
General	Modem	Di	gnostics	Advanced
Port: COM34 Speaker volume Off Maximum Port S	peed 0	-	-ligh	
Dial Control	t for dial tone be	fore dia	ing	
			ОК	Cancel

Step4. Click "Query Modem" on the "Diagnostics" page, wait a few seconds to check if the value is read, if not, make sure the USB driver is correct first.

General General Modem Information Field Value Hardware ID USB Command Re ATQ0V1E0 Su AT+GMM EC AT+FCLASS=? 0.2 AT#CLS=? C0	Modem Modem VID_05C6&PII III sponse ccess 20 2 0	Dia D_9215	&REV_0232&N	Advanced
Andem Information Field Value Hardware ID USB Command Re ATQ0V1E0 Su AT+GMM EC AT+FCLASS=? 0,2 AT#CLS=? C0	s VID_05C6&PII III III Isponse ccess 20 2 0	D_9215	&REV_0232&N	11_0 •
Field Value Hardware ID USB Command Re ATQ0V1E0 Su AT+FCLASS=? 0.2 AT#CLS=? C0	sponse ccess 20	D_9215	&REV_0232&M	NI_0
AT+GMM EC AT+FCLASS=? 0.2 AT#CLS=? C0	VID_05C6&PII	D_9215	8REV_02328N	ni_0
Command Re ATQ0V1E0 Su AT+GMM EC AT+FCLASS=? 0,2 AT#CLS=? C0	sponse ccess 20	_	-	•
Command Re ATQOV1E0 Su AT+GMM EC AT+FCLASS=? 0.2 AT#CLS=? C0	sponse ccess 20			•
Command Re ATQ0V1E0 Su AT+GMM EC AT+FCLASS=? 0,2 AT#CLS=? C0	sponse ccess 20			·
Command Re ATQ0V1E0 Su AT+GMM EC AT+FCLASS=? 0,2 AT#CLS=? CO	sponse ccess 20			
Command Re ATQOV1E0 Su AT+GMM EC AT+FCLASS=? 0.2 AT#CLS=? C0	ccess 20			â
ATQOV1E0 Su AT+GMM EC AT+FCLASS=? 0.2 AT#CLS=? CO	ccess 20			
AT+GMM EC AT+FCLASS=? 0,2 AT#CLS=? CO	20			
AT+FCLASS=? 0,2 AT#CLS=? CO	0			
AT#CLS=? CO	+FCLASS=? 0,2.0			
	MMAND NOT	SUPPO	RTED	-
			Query Mor	dem
ogging				
Append to Log			View lo	g

Step5. In the "Advanced" tab, enter additional dialing commands as shown below: Note: The APN for GPRS is provided by your local carrier.

Example:

In Taiwan, enter: AT+CGDCONT=1, "IP", "INTERNET". In Mainland China: AT+CGDCONT=1, "IP", "CMNET".

Driver	Details Power Ma		Management
General	Modem	Diagnostics	Advanced
Extra Settings			
Extra initializat	tion commands:		
AT+CGDCO	NT=1,"IP","INTER	NET"	
1 m 1			
Initialization c	ommands may lead	to the exposure of	
sensitive infor	mation in the mode	m log. Consult your	
sensitive infor modem's instr	mation in the mode uction manual for m	m log. Consult your ore details.	
sensitive infor modem's instr	mation in the mode uction manual for m	m log. Consult your ore details.	
sensitive infor modem's instr	mation in the mode uction manual for m	m log. Consult your ore details.	
sensitive infor modem's instr	mation in the mode uction manual for m	m log. Consult your ore details.	
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senstrive infor modem's instr	mation in the mode uction manual for m	m log. Consult your ore details.	
senstive infor modem's instr	mation in the mode uction manual for m	m log. Consult your ore details.	
senstrive infor modem's instr	mation in the mode uction manual for m	anced Port Settings	
senstrive infor modem's instr	mation in the mode uction manual for m Adv	anced Port Settings	
senstive infor modem's instr	mation in the mode uction manual for m Adv Chang	anced Port Settings	· · · · · · · · · · · · · · · · · · ·

Step6. Click "OK

Create a new dial-up and networking connection

Step1. Control Panel \rightarrow Click "Network and Sharing Center"



Step2. Click "Set up a new connection or network"

💽 🗢 😫 « All Control Pan	Items > Network and Sharing Center - 4 Search Control Panel
Control Panel Home	View your basic network information and set up connections
Change adapter settings	See ful
Change advanced sharing settings	XP8X31-2VJENIV1 Internet (This computer)
	View your active networks Connect to a networks.
	Change your networking settings
	Set up a new connection or network
	Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up a router or ac point.
	Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up a router or ac point. Connect to a network Connect or reconnect to a wireless, wired, dial-up, or VPN network connection.
	Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up a router or ac point. Connect to a network Connect or reconnect to a wireless, wired, dial-up, or VPN network connection. Choose homegroup and sharing options
	Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up a router or ac point. Connect to a network Connect or reconnect to a wireless, wired, dial-up, or VPN network connection. Choose homegroup and sharing options Access files and printers located on other network computers, or change sharing settings
	Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up a router or ac point. Connect to a network Connect or reconnect to a wireless, wired, dial-up, or VPN network connection. Choose homegroup and sharing options Access files and printers located on other network computers, or change sharing settings Troubleshoot problems
	Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up a router or ac point. Connect to a network Connect or reconnect to a wireless, wired, dial-up, or VPN network connection. Choose homegroup and sharing options Access files and printers located on other network computers, or change sharing settings Troubleshoot problems Diagnose and repair network problems, or get troubleshooting information.
See also	Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up a router or ac point. Connect to a network Connect or reconnect to a wireless, wired, dial-up, or VPN network connection. Choose homegroup and sharing options Access files and printers located on other network computers, or change sharing settings Troubleshoot problems Diagnose and repair network problems, or get troubleshooting information.
See also HomeGroup	 Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up a router or ac point. Connect to a network Connect or reconnect to a wireless, wired, dial-up, or VPN network connection. Choose homegroup and sharing options Access files and printers located on other network computers, or change sharing settings Troubleshoot problems Diagnose and repair network problems, or get troubleshooting information.

Step3. Select "Set up a dial-up connection" \rightarrow Click "Next"



Step4. Fill in the phone number in the "Dial Phone Number" field \rightarrow Press "Next" to go to the next step.

Note: The phone number is provided by your local telecom provider, e.g. *99# in Taiwan.

Dial-up phone number:	*99#	Dialing Rules
User name:	[Name your ISP gave you]	
Password:	[Password your ISP gave you]	
	Show characters	
	Remember this password	
Connection name:	I-8213-4G	
😵 🔲 Allow other people t	to use this connection	

Step5. Connecting, please wait



Step6. Connecting to the network will test the connection status first.

😡 🏢 Create a Dial-up Connection	
Testing your Internet connection	
i i i i i	
Ski	p Cancel

Step7. Confirm network connection.



Step9. Control Panel \rightarrow Network Connections \rightarrow Click "Your GPRS's name" \rightarrow File \rightarrow Properties



Step10. General \rightarrow Select "Standard 19200 bps Modem" \rightarrow Click "Configure"

		-	Configure
Phone number	Phone numbe	ər:	
			Alternates
Country/regio	n code:		
			~
Use dialing) rules		Dialing Rules

Step11. Maximum speed(bps) \rightarrow Select "115200" \rightarrow do not select "Enable hardware flow control " \rightarrow Click "OK"

Modem Configuration	? 🔀
Standard 19200 bps Modem (COM1)	_
Maximum speed (bps): 115200 Modem protocol	~
Show terminal window Enable modem speaker	Cancel

Step12. Click "OK"

Jeneral	Uptions	Security	Networking	Advanced	
Connec	t using:				
🎒 Mo	odem - Sta	ndard 192	00 bps Moder	n (COM1)	
hard and a second s					opfiques
_					Jringuro
Phon	e number				
Area	i code:	Phone	number:		
	~			Alte	mates
Cou	ntrv/regior	r code:			
					~
		8		-	
	Jse dialing	rules		Dialin	g Rules
Sho	w icon in I	notification	area when c	onnected	
100					

Step13. Control Panel \rightarrow Network Connections \rightarrow Double-Click "Your GPRS's name"



Step14. Click "Dial"

onnect Dial	-up Connection
User name:	guest
Password:	••••
Save this t	user name and password for the following users: who uses this computer
Dial:	*99***1#
Dial	Cancel Properties Help

Step15. If you connect to internet successfully, your toolbar have new logo

-

4 ⑨ 由 3:49 PM

Step16. You can Double-Click the new logo \rightarrow Click "Details" \rightarrow Get your IP address



6.2. Example: LinPAC (Linux OS)

User can use the Linux command "wvdial" to connect the network via i-8213W-4G's port "ttyUSB3".

Step 1 : Enter the command "cat /etc/wvdial.conf" to modify the ISR's wvdial.conf file, set the ISP's network configuration and save it, refer to the following example

Step 2 : Enter the command "wvdial &" to enable 2G/3G/4G.

Step 3: After checking the IP address provided by the network provider, see if the "ppp0" network interface is active.



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7. Quick test GPS

7.1. Example: XP-8000 (Windows Embedded Standard 2009)

Step 1 : To ICPDAS website download XP-8000_Tool

https://www.icpdas.com/en/download/show.php?num=2382&model=I-8213W-4GE Step 2 : Copy the tested software (Send232.exe) to your XP-8000 from the CD Path: CD:\gprs_gsm_modem\I-8213W-4G\Software\XP-8000\GPSTest

Step 3 : Execute the tested software and select your AT port number of your XP-8000.



Step 4 : Type the command: AT+QGPS=1

Com9 - 115200 - n.8.1	Connect State :
How Control: O None O HW O SW CTS: True DSR: True DCD: False	Auto Connect Detection DTR_Disable
End char of String • None • LF_CR(0x0a 0x0d) • CR(0x0d) • CR_LF(0x0d 0x0a) • LF(0x0a) • Def	Auto-Send Period : 500 Setting Send Stop END
Send232_SEND (ASCII Mode) ASCII Send Binary	Send232_RECV (Auto-Recv)(ASCII Mode) Manual Recv Clear Input Buffer Auto Recv Clear Text Binary
Send_Len: 10 10 AT+QGPS=1	Recv_Len: 16 16 AT+QGPS=1 OK
	▼ ShowData

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Step 5 : Re-open the port (NMEA port) number, then you will get GPS data.



Send232_Binary v1.4.8 (ICPDAS)				
COM Port Baud Line Control Com9 115200 n,8,1 Flow Lontrol : None HW SW	Connect State : Connecting Close COM Auto Connect Detection			
CTS : True DSR : True DCD : True End char of String	Auto-Send			
C None C LF_CR(0x0a 0x0d)	Period : 500 Setting Set_Net			
CR(0x0d) C CR_LF(0x0d 0x0a) LF(0x0a) C Def 1A (HEX)	Send Stop END			
Send232_SEND (ASCII Mode)	Send232_RECV (Auto-Recv)(ASCII Mode)			
Send ASCII Clear Text Binary	Manual Recv Clear Input Buffer Auto Recv Clear Text Binary			
Send_Len: 0 0	Recv_Len: 429 13194			
AT+QGPS=1	\$GPVTG,,T,0.0,M,0.0,N,0.0,K,A*0D \$GPRMC,073633.0,A,2237.180782,N,1 2018.102092,E,0.0,,300317,0.0,E,A*2D \$GPGSA,A,2,08,09,16,21,27,31,,,,,1.4, 1.1,0.9*3D			
	ShowData Enlarge			

7.2. Example: LinPAC (Linux OS)

To read GPS NMEA data from the i-8213W-4G interface "/dev/ttyUSB1", follow the steps below:

Step 1 : Enter the command " echo -e "AT+QGPS=1 \r\n" > /dev/ttyUSB2 > /dev/ttyUSB2 "

Step 2 : Input the command "cat /dev/ttyUSB1", the result is as follows, GPS information will be output continuously.

```
root@icpdas:~# echo -e "AT+QGPS=1 \r\n" > /dev/ttyUSB2
root@icpdas:~#
root@icpdas:~# cat /dev/ttyUSB1
$GPVTG,,T,,M,,N,,K,N*2C
$GPGSA,A,1,,,,,,,,,,,,,*1E
$GPGGA,,,,,0,,,,,,*66
$GPRMC,,V,,,,,,,,,N*53
$GPVTG,,T,,M,,N,,K,N*2C
```

Revised Note

Version	Editor	Date	Description
1.0	Eddie	2017-03-30	Release
1.1	Eddie	2017-09-05	Update Hardware Specifications
1.2	Eddie	2018-04-19	Update Dial-up Connection
1.3	Patty	2023-08-09	Add LinPAC Example

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