

**FAQ Manual** 

Version 1.0.0 Oct 2023

# **G-451x Series**

## 4G Power Saving PAC with Solar charger





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### **Important Information**

#### Warranty

All products manufactured by ICP DAS are under warranty regarding defective materials for a period of one year, beginning from the date of delivery to the original purchaser.

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Email: service@icpdas.com

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## 1. FAQ

#### Q01: G-451x Series How to upload files?

A01:Below are two uploading methods and detailed steps for your reference.

#### Method 1 : Use 7188.exe to upload the program.

Step1: Ensure that the device switch is moved to INIT.



#### Step2: Connect G-451x and PC using RS-232

X If your computer lacks an RS-232 port, you can purchase an RS-232 to USB adapter.

	C	N2 Pin	Assignm	nent	
Analog Input 0 ~ +20 mA	AI7	Pin 16	Pin 8	AGND	
	AI6	Pin 15	Pin 7	AGND	Analog Cround
	AI5	Pin 14	Pin 6	AGND	Analog Ground
	AI4	Pin 13	Pin 5	AGND	
	AI3	Pin 12	Pin 4	DI2	Digital Input
	AI2	Pin 11	Pin 3	DI1	
	AI1	Pin 10	Pin 2	DIO	
	AI0	Pin 9	Pin 1	U2 DI	MCU2 Input
	С	N1 Pin	Assignm	nent	
	RL.NC	Pin 20	Pin 10	DO.PWR	
MCU2 Output	RL.COM	Pin 19	Pin 9	DO2	Digital Output
	RL.NO	Pin 18	Pin 8	D01	
	CTS1	Pin 17	Pin 7	DO0	
COM1 BE 322-	RTS1	Pin 16	Pin 6	D+	COM2 RS-485
COM1 RS-232	RxD1	Pin 15	Pin 5	D-	
	TxD1	Pin 14	Pin 4	GND	Ground For COM1
Power Input:	DC.+VS	Pin 13	Pin 3	BAT.+VS	12V Lead Acid
+10 ~ +30 VDC	DC.GND	Pin 12	Pin 2	BAT.+GND	Battery
	N/A	Pin 11	Pin 1	E.G.	Frame Ground

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#### Step3: Open the 7188.exe



Step4: Successful opening will display the COM port and uP-4500 that you have configured.

If pressing Enter doesn't display >uP-4500, it may be due to the incorrect COM port you've selected. Please check the Port Number used by RS-232 in the Device Manager.



Step5: When 'uP-4500 >' appears, please enter 'load'.



Step6: Press ALT + E to download file!

```
uP-4500>LOAD
File will save to DECE:000A
StartAddr-->D000:ECE9
Press ALT_E to download file!
Input filename:
```

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Step7: Input the file name, for GPS demo as an example, please input "gps.exe".



#### Step8: Enter 'RUN' to execute the test program.

\*Enter "q" to exit the program.

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#### Method 2 : Use MiniOS7 Utility to upload the program.

Step1: Please go to the link to download <u>MiniOS7 Utility V327.exe</u> first. Step2: Please follow the steps for installation.



#### Step3: Open the MiniOS7\_Utility.exe

MiniOS7 Utility Version 3.2.7 X 🗊 File 🌔 Connection 🔹 🚸 Command 🛐 Configuration 🛅 Tools 🥔 Help 🕶 9<sup>6</sup> Look in: 📘 gps demo - 3 🕸 🖻 Lock in: Disk A 24,668 bytes available Size Type Name Modified Attributes No Name Size Modified 🧱 7188xw.exe 2015/9/1 下午 03:59 46KB EXE File A SMSMB EXE 388 298 2023/11/2 上午 08:39:02 7188xw.f4 1KB F4 File 2023/11/3 下午 04:55 A 45,690 2022/5/3 下午 04:12:09 gps.exe 👔 7188xw.ini 1KB INLEIe 2023/11/6 上午 09:27 A 1KB BAT File 2023/11/3 下午 04:55 А autoexec.bat gps.c 1KB C File 1KB DSK File 2015/9/1 下午 03:59 2022/5/3 下午 04:12 ۵ GPS.EXE 44KB EXE File 2022/5/3下午 04:12 GPS.OBJ 1KB OBJ File 2022/5/3 下午 04:12 A 2022/5/3下午 04:12 5KB PRJ File 📄 gps.prj 🚾 upload sop.docx 2023/11/6上午 10:14 2023/11/3下午 05:07 645KB DOCX File A 1KB TXT File upload\_sop.txt A

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Step4: Press 'F2' on the keyboard, enter the RS-232 settings, and establish the connection.



Step5: Locate the folder where the program to be uploaded is stored.

Name	Size	Туре	Modified	Attribute
🧱 7188xw.exe	46KB	EXE File	2015/9/1 下午 03:59	А
📑 7188xw.f4	1KB	F4 File	2023/11/3 下午 04:55	A
🚮 7188xw.ini	1KB	INI File	2023/11/6上午 09:27	А
💿 autoexec.bat	1KB	BAT File	2023/11/3 下午 04:55	А
🖻 gps.c	1KB	C File	2015/9/1 下午 03:59	А
GPS.DSK	1KB	DSK File	2022/5/3 下午 04:12	А
GPS.EXE	44KB	EXE File	2022/5/3 下午 04:12	А
@ GPS.OBJ	1KB	OBJ File	2022/5/3 下午 04:12	A
📄 gps.prj	5KB	PRJ File	2022/5/3下午 04:12	A
💶 upload sop.docx	645KB	DOCX File	2023/11/6 上午 10:14	A
upload_sop.txt	1KB	TXT File	2023/11/3 下午 05:07	A

Step6: Right-click on the file you want to upload, and select 'Upload'.

GPS EXE			
@ GPS.OBJ	Upload	F5	202
📋 gps.prj	Upload & Execute[RAM]		
upload sop.docx	Update MiniOS7 In	nage	202 202
	DOS	F11	

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Step7: After the upload is complete, you can connect to the RS-232 port using any communication software.

Session	Basic options for your P	PuTTY session
- Logging - Terminal - Keyboard - Bell - Features - Window - Window - Appearance - Behaviour - Translation	Specify the destination you want Setial line COM6 Connection type: C Raw C Adb C Telne C Load, save or delete a stored ses Saved Sessions	to connect to Speed 115200 Rlogi C SSH • Se ision
Selection     Colours     Onnection     Data     Proxy     Telnet     Rlogin     SSH     Serial	Default Settings NMC-9181 adb gtp-541	Load Save Delete
	Close window on exit: C Always C Never C Only on clean exit	
		201

%As an example, using Putty.exe, as shown in the following image:

Step8: Enter 'RUN' to execute the test program.

#### \*Enter "q" to exit the program.

🖉 COM6 - PuTTY

```
run
G4500.Lib vesion 2.0D, Date:May 05 2015
GSM LIB vesion 1.45, Date:Sep 08 2023
MCU2 LIB vesion : V1.10 Jul 20 2018
MCU2 FW version: 2013/05/29 Ver100
please input pin code of SIM card: (ex: 0000)
0000
init modem success!!
gps open comport success !!
****** [ GPS Demo for G-4500P ] ******
$GPRMC,,V,,,,,,,N*53
$GPVTG,,,,,,,N*30
$GPGGA,,,,,0,00,99.99,,,,,,*48
$GPGSA,A,1,,,,,,,,,,,99.99,99.99,99.99*30
$GPGSV,3,1,10,03,,,18,06,,,13,08,,,19,09,,,23*7C
$GPGSV,3,2,10,10,,,17,11,,,21,12,,,25,21,,,21*79
$GPGSV,3,3,10,31,,,21,32,,,15*7C
 TTOTT
           V NECA
```

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Q02: How to solve the error of "Can not use COM xx" or "System cannot find file" when uploading files using 7188.exe?



A02: If the screen displays 'System cannot find the specified file' and 'can not use port'. Please refer to the following steps

Step1: Please open the 7188xw.ini file and change the comport num to the correct RS232 port num.

%The first letter of the prefix does not need to be modified.



Step2: Open 7188.exe to check if the modification was successful.



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# **Appendix A. Revision History**

This chapter provides revision history information to this document.

The table below shows the revision history.

Version	Date	Description of changes
1.0.0	2023-11-10	The First Release Revision

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