



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.

Warning

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Email: service@icpdas.com

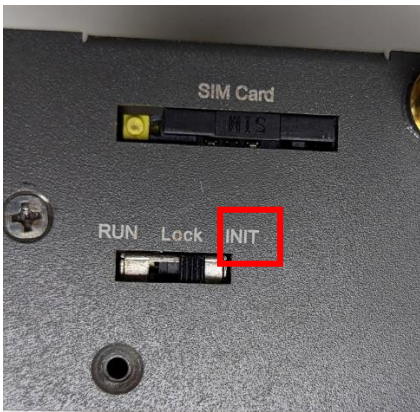
1. FAQ

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

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

CN2 Pin Assignment					
Analog Input 0 ~ +20 mA	AI7	Pin 16	Pin 8	AGND	Analog Ground
	AI6	Pin 15	Pin 7	AGND	
	AI5	Pin 14	Pin 6	AGND	
	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	DI0	
	AI0	Pin 9	Pin 1	U2 DI	

CN1 Pin Assignment					
MCU2 Output	RL.NC	Pin 20	Pin 10	DO.PWR	Digital Output
	RL.COM	Pin 19	Pin 9	DO2	
	RL.NO	Pin 18	Pin 8	DO1	
	CTS1	Pin 17	Pin 7	DO0	
COM1 RS-232	RTS1	Pin 16	Pin 6	D+	COM2 RS-485
	RxD1	Pin 15	Pin 5	D-	
	TxD1	Pin 14	Pin 4	GND	
Power Input: +10 ~ +30 Vdc	DC.+VS	Pin 13	Pin 3	BAT.+VS	12V Lead Acid
	DC.GND	Pin 12	Pin 2	BAT.+GND	Battery
	N/A	Pin 11	Pin 1	F.G.	Frame Ground

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.

```
7188xw Version 1.38.0 (2009/08/20)[By Tim Tsai.]  
[Begin Key Thread...]Current setting: Use COM6 115200,N,8,1  
AutoRun:  
Autodownload files: None  
Current work directory="C:\Users\goodb\OneDrive\桌面\gps demo"  
original baudrate = 115200!  
now baudrate = 115200!  
  
uP-4500>
```

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

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

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:
```

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

```
Input filename:gps.exe
Load file:gps.exe[crc=ED3A,0000]
Send file info. total 179 blocks
Block 179
Transfer time is: 8.094000 seconds
```

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

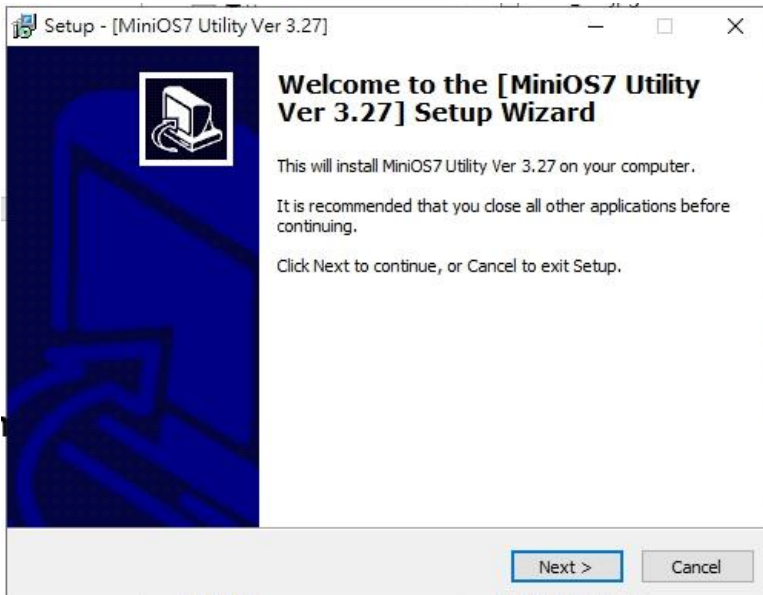
※Enter "q" to exit the program.

```
uP-4500>run
G4500.Lib version 2.0D, Date:May 05 2015
*****
|           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,1,1,02,18,,21,22,,19*79
$GPGLL,,,,,V,N*64
$GPRMC,,V,,,,,,,,,N*53
$GPVTG,,,,,,,,,N*30
$GPGGA,,,,,0,00,99.99,,,,,*48
$GPGSA,A,1,,,,,,,,,99.99,99.99,99.99*30
$GPGSV,1,1,03,18,,21,22,,17,26,,25*75
$GPGLL,,,,,V,N*64
$GPRMC,,V,,,,,,,,,N*53
$GPVTG,,,,,,,,,N*30
$GPGGA,,,,,0,00,99.99,,,,,*48
$GPGSV,1,1,04,18,,21,22,,17,26,,25*75
$GPGLL,,,,,V,N*64
```

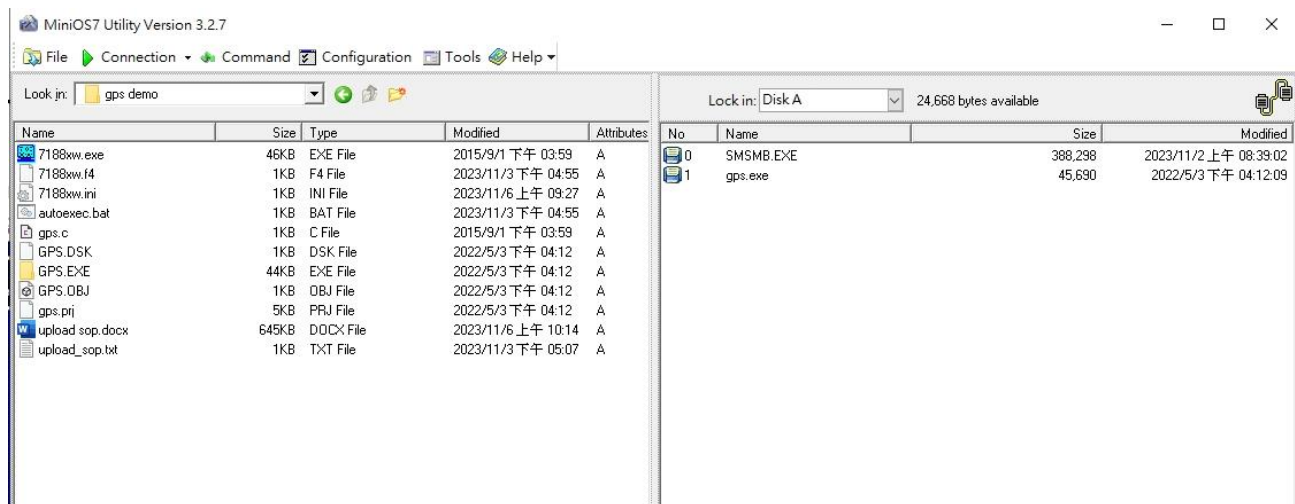
Method 2 : Use MiniOS7 Utility to upload the program.

Step1: Please go to the link to download [MiniOS7 Utility V327.exe](#) first.

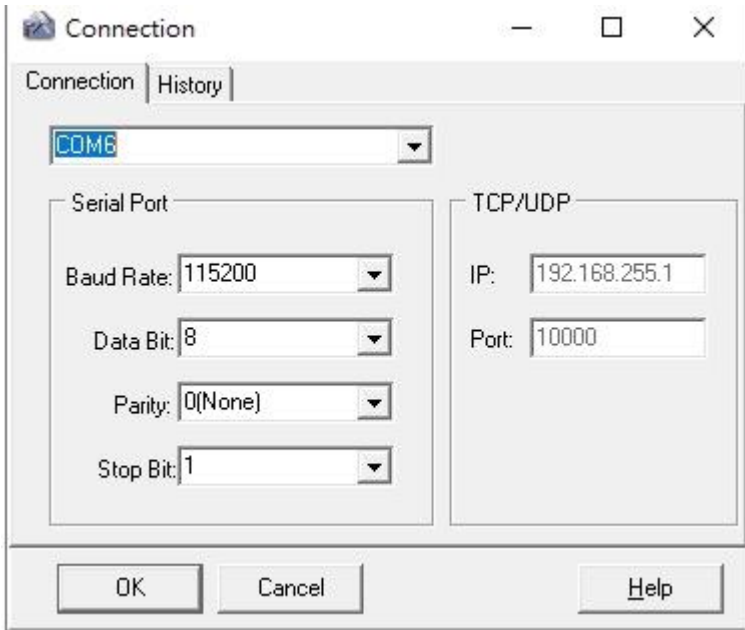
Step2: Please follow the steps for installation.



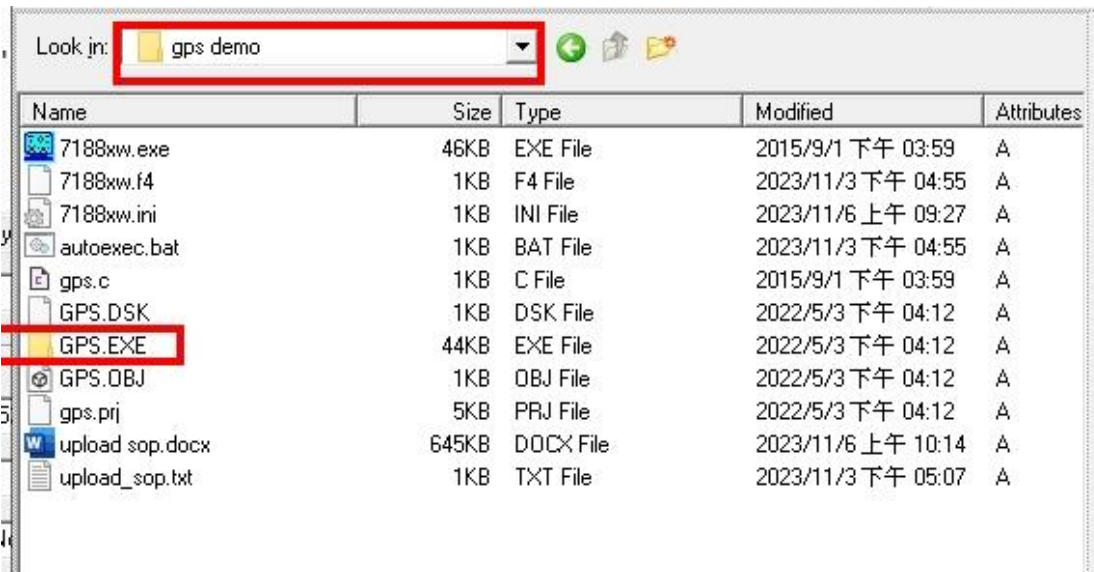
Step3: Open the **MiniOS7_UTILITY.exe**



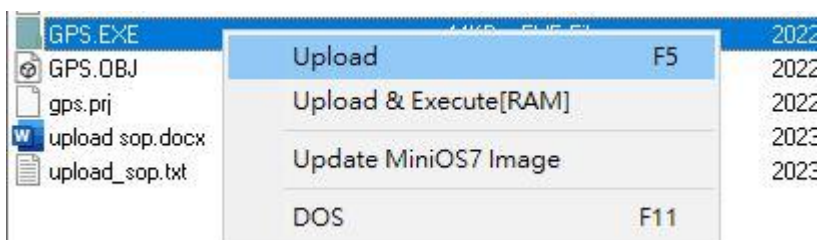
Step4: Press 'F2' on the keyboard, enter the RS-232 settings, and establish the connection.



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

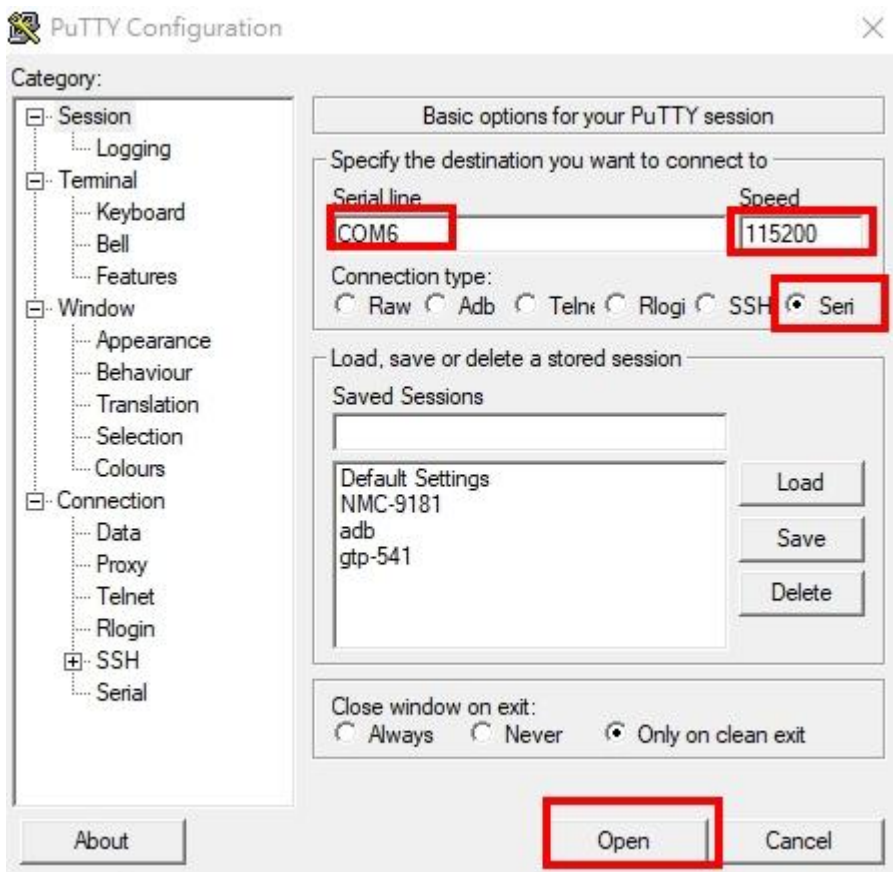


Step6: Right-click on the file you want to upload, and select 'Upload'.



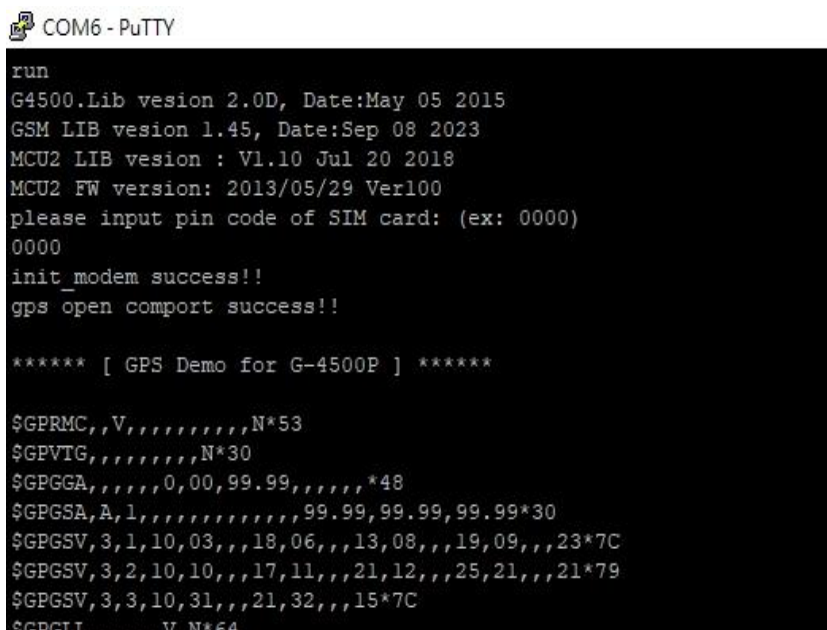
Step7: After the upload is complete, you can connect to the RS-232 port using any communication software.

※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.



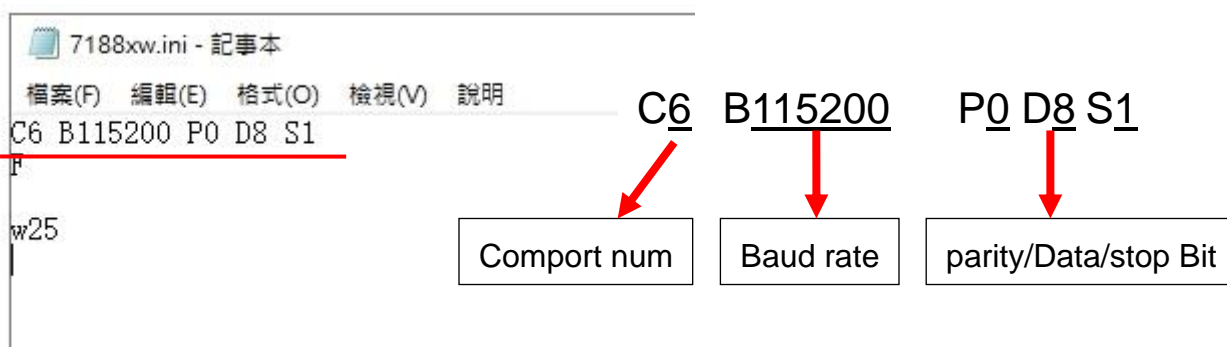
Q02: How to solve the error of "Can not use COM xx" or "System cannot find file" when uploading files using 7188.exe?

```
7188xw Version 1.38.0 (2009/08/20)[By Tim Tsai.]
Open [\\.\COM99] error:系統找不到指定的檔案。
Can not use COM 99,
Please use : [7188xw /C#] to use another comport.
Press any key to quit.
```

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.

```
7188xw Version 1.38.0 (2009/08/20)[By Tim Tsai.]
[Begin Key Thread...]Current setting: Use COM6 115200,N,8,1
AutoRun:
Autodownload files: None
Current work directory="C:\Users\goodb\OneDrive\桌面\gps demo"
original baudrate = 115200!
now baudrate = 115200!
P-4500>
```

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