

**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

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## 1. FAQ

Q01: G-451x 系列如何上傳檔案?

A01:以下提供兩種方法及詳細步驟供參考.

方法1:使用7188.exe 上傳程式

步驟 1: 請確認設備開關移至 INIT



步驟 2: 透過 RS-232 連接 G-451x 與 PC

※ 如果電腦沒有 RS-232 接口,可以購買 RS-232 轉 USB 轉接器進行轉接

	C	N2 Pin	Assignm	ient	
	AI7	Pin 16	Pin 8	AGND	
	AI6	Pin 15	Pin 7	AGND	Apples Cround
	AI5	Pin 14	Pin 6	AGND	Analog Ground
Analog Input 0 ~ +20 mA	AI4	Pin 13	Pin 5	AGND	
	AI3	Pin 12	Pin 4	DI2	
	AI2	Pin 11	Pin 3	DI1	Digital Input
	AI1	Pin 10	Pin 2	DIO	
	AI0	Pin 9	Pin 1	U2 DI	MCU2 Input
	RL.NC	Pin 20	Pin 10	DO PWR	
	RL.NC	Pin 20	Pin 10	DO PWR	
1	PL 0014	0. 10		000	
MCU2 Output	RL.COM	Pin 19	Pin 9	DO2	Digital Output
MCU2 Output	RL.COM RL.NO	Pin 19 Pin 18	Pin 9 Pin 8	DO2 DO1	Digital Output
MCU2 Output	RL.COM RL.NO CTS1	Pin 19 Pin 18 Pin 17	Pin 9 Pin 8 Pin 7	DO2 DO1 DO0	Digital Output
MCU2 Output	RL.COM RL.NO CTS1 RTS1	Pin 19 Pin 18 Pin 17 Pin 16	Pin 9 Pin 8 Pin 7 Pin 6	DO2 DO1 DO0 D+	Digital Output
MCU2 Output	RL.COM RL.NO CTS1 RTS1 RxD1	Pin 19 Pin 18 Pin 17 Pin 16 Pin 15	Pin 9 Pin 8 Pin 7 Pin 6 Pin 5	D02 D01 D00 D+ D-	Digital Output
MCU2 Output	RL.COM RL.NO CTS1 RTS1 RxD1 TxD1	Pin 19 Pin 18 Pin 17 Pin 16 Pin 15 Pin 14	Pin 9 Pin 8 Pin 7 Pin 6 Pin 5 Pin 4	DO2 DO1 DO0 D+ D- GND	Digital Output COM2 RS-485 Ground For COM1
MCU2 Output	RL.COM RL.NO CTS1 RTS1 RxD1 TxD1 DC.+VS	Pin 19 Pin 18 Pin 17 Pin 16 Pin 15 Pin 14 Pin 13	Pin 9 Pin 8 Pin 7 Pin 6 Pin 5 Pin 4 Pin 3	D02 D01 D00 D+ D- GND BAT.+VS	Digital Output COM2 RS-485 Ground For COM1 12V Lead Acid
MCU2 Output COM1 RS-232 Power Input: +10 ~ +30 VDC	RL.COM RL.NO CTS1 RTS1 RxD1 TxD1 DC.+VS DC.GND	Pin 19 Pin 18 Pin 17 Pin 16 Pin 15 Pin 14 Pin 13 Pin 12	Pin 9 Pin 8 Pin 7 Pin 6 Pin 5 Pin 4 Pin 3 Pin 2	D02 D01 D00 D+ D- GND BAT.+VS BAT.+GND	Digital Output COM2 RS-485 Ground For COM1 12V Lead Acid Battery

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## 步驟 3: 開啟 7188.exe



## 步驟 4: 成功開啟後畫面會顯示您所設定 Comport 與 uP-4500 >

 ※ 如果按 Enter 鍵後未顯示 uP-4500 > · 可能為您所選的 Comport 不正確 · 請在裝置管理員中 檢查 RS-232 使用的 Port number



步驟 5: 當 'uP-4500 >' 出現後, 請輸入 'load'.



步驟 6: 並鍵盤按下 ALT + E 以下載檔案

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

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步驟 7: 輸入要上傳的檔案名稱,以 GPS Demo 為例,請輸入 "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

步驟 8: 輸入 'RUN' 可以執行程式 ※輸入 "q" 可退出程式.

D MEAA
ur-4500>run
G4500.Lib vesion 2.0D, Date:May 05 2015
************
* * * * * * * * * * * * * * * * * * * *
\$GPRMCVN*53
\$GPVTGN*30
\$GPGGA 0 00 99 99 *48
\$RDRC4 1 00 00 00 00 00 00 00*30
₽0105n,n,1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
PUFUSV, 1, 1, UZ, 10, , , Z1, ZZ, , , 19"79
⊅GPGLL,,,,,,,V,N*64
\$GPRMC,,V,,,,,,,,,N*53
\$GPVTGN*30
\$GPGGA0.00.99.99*48
\$GPGS4 4 1 99 99 99 99 99 430
REPERV 1 1 02 18 21 22 17 26 25*75
PO(0,0), 1, 1, 0, 10, , 21, 22, , 17, 20, , 25 75 $PO(1,1)$ U M $\times CA$
PUFULL,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
₽GPKMC,,V,,,,,,,N*⊃3
\$GPVTG,,,,,,,,N*30
\$GPGGA0.00.99.99*48

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## 方法 2:使用 MiniOS7 Utility 上傳程式

步驟 1: 請先點擊連結下載 MiniOS7 Utility V327.exe

步驟 2: 並依步驟進行安裝



## 步驟 3: 開啟 MiniOS7\_Utility.exe

Name         Size         Type         Modified         Attributes           Mame         Size         Type         Modified         Attributes           Mame         Size         Size         Size           Size         Size         Size         Size           Mathematic         Size         Size         Size           Size         Size         Size         Size           Size         Size         Size         Size           Size         Size	Look jn: 📘 gps demo		- 3 🕸 🖻				Lock in: Disk A	$\sim$	24,668 bytes available	Ð
1188xw.texe     46KB EXE File     2015/9/1 下午 03:59 A     7188xw.t4     1KB F4 File     2023/11/3 下午 04:55 A     188xw.tni     1KB INI File     2023/11/3 下午 04:55 A     1 gps.exe     45,690     2022/5/3     1 gps.exe     45,690     2022/5/3     655.D5K     1KB D5K File     2022/5/3 下午 04:12 A     GP5.D5K     1KB 05U File     2022/5/3 下午 04:12 A     GP5.D5K     5KB PUJ File     2022/5/3 下午 04:12 A     Gps.pi     5KB PUJ File     2022/5/3 下千 04:12 A     gps.pi     sp.pi     5KB PUJ File     2022/5/3 下千 04:12 A     gps.pi     sp.pi     5KB PUJ File     2022/5/3 下千 04:12 A     gps.pi     sp.pi     SKB PUJ File     2022/5/3 下千 04:12 A     gps.pi     sp.pi     SKB PUJ File     2022/5/3 下千 04:12 A     gps.pi     sp.pi     SKB PUJ File     2022/5/3 下千 04:12 A     gps.pi     sp.pi     SKB PUJ File     2022/5/3 下千 04:12 A     gps.pi     sp.pi     sp.pi     SKB PUJ File     2022/5/3 下千 04:12 A     gps.pi     sp.pi     SKB PUJ File     2022/5/3 下千 04:12 A     gps.pi     sp.pi     sp.pi	Name	Size	Туре	Modified	Attributes	No	Name		Size	Modifie
○7188xw.f4     1KB     F4 File     2023/11/3 下午 04:55     A     ● 1     gps.exe     45,690     2022/5/3       ◎7188xw.fi     1KB     INI File     2023/11/3 下午 04:55     A     ● 1     gps.exe     45,690     2022/5/3       ◎ gps.c     1KB     BAT File     2023/11/3 下午 04:55     A     ● 1     gps.exe     45,690     2022/5/3       ◎ gps.c     1KB     CFFile     2015/91 TF 03:59     A     ●     ●       ○ GPS.DSK     1KB     DSK File     2022/5/3 TF 04:12     A       ○ GPS.DSL     1KB     0BJ File     2022/5/3 TF 04:12     A       ○ GPS.OBJ     1KB     0BJ File     2022/5/3 TF 04:12     A       ○ gps.prji     5KB     PLFile     2022/5/3 TF 04:12     A       ○ gps.prji     5KB     PLFile     2022/5/3 TF 04:12     A       ○ upload_sop.txt     645KB     DOCX File     2022/5/3 TF 04:12     A       ○ upload_sop.txt     1KB     TXT File     2023/11/3 TF 05:07     A	🧱 7188xw.exe	46KB	EXE File	2015/9/1 下午 03:59	A	0	SMSMB.EXE		388,298	2023/11/2 上午 08:39:0
<ul> <li>⑦188xw.ini</li> <li>① T188xw.ini</li> <li>① T188xw.ini</li> <li>① T188xw.ini</li> <li>① T188xw.ini</li> <li>① T188xw.ini</li> <li>① T180xw.ini</li> <li>② T180xw.ini</li> <li>① T180xw.ini</li> <li>② T180xw.ini</li> <li>② T180xw.ini</li> <li>③ T1</li></ul>	📑 7188xw.f4	1KB	F4 File	2023/11/3 下午 04:55	A	<b>Q</b> 1	gps.exe		45,690	2022/5/3 下午 04:12:0
■ autoexec.bat 1KB BAT File 2023/11/3下午 04:55 A ③ gps.c 1KB C File 2015/3/1 下午 03:59 A ⑤ GPS.DSK 1KB DSK File 2022/5/3 下午 04:12 A ⑥ GPS.DSK 44KB EXE File 2022/5/3 下午 04:12 A ◎ GPS.DBJ 1KB 0BJ File 2022/5/3 下午 04:12 A ◎ gps.prj 5KB PRJ File 2022/5/3 下午 04:12 A □ upload_sop.tox 645KB DOCX File 2023/11/3 下午 04:07 A □ upload_sop.txt 1KB TXT File 2023/11/3 下午 05:07 A	🚮 7188xw.ini	1KB	INI File	2023/11/6 上午 09:27	A					
	🚳 autoexec.bat	1KB	BAT File	2023/11/3 下午 04:55	A					
GPS.DSK       1KB       DSK File       2022/5/3 下午 04:12       A         GPS.DSK       44KB       EXE File       2022/5/3 下午 04:12       A         GPS.DSL       44KB       EXE File       2022/5/3 下午 04:12       A         GPS.DBJ       1KB       DBJ 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       2022/3/3 下午 04:12       A         upload_sop.txt       1KB       TXT File       2023/11/6 上午 10:14       A	🗈 gps.c	1KB	C File	2015/9/1 下午 03:59	A					
GPS.EXE     44KB     EXE File     2022/5/3 节午 04:12     A       G GPS.DBJ     1KB     DBJ File     2022/5/3 节午 04:12     A       gps.pij     5KB     PRJ File     2022/5/3 节午 04:12     A       upload_sop.docx     645KB     DOCX File     2022/5/3 节午 04:12     A       upload_sop.txt     1KB     TXT File     2023/11/3 节午 05:07     A	📑 GPS.DSK	1KB	DSK File	2022/5/3 下午 04:12	A					
<ul> <li>③ GPS.0BJ</li> <li>1KB 0BJ Fie</li> <li>2022/5/3 下午 04.12 A</li> <li>③ gps.prij</li> <li>5KB PFJ Fie</li> <li>2022/5/3 下午 04.12 A</li> <li>④ upload_sop.docx</li> <li>645KB</li> <li>DOCX Fie</li> <li>2023/11/3 下午 05:07 A</li> </ul>	GPS.EXE	44KB	EXE 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	🙆 GPS.OBJ	1KB	OBJ File	2022/5/3 下午 04:12	A					
w_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	🗋 gps.prj	5KB	PRJ File	2022/5/3 下午 04:12	A					
ingload_sop.txt 1KB T≍T File 2023/11/3下午 05:07 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					

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## 步驟 4: 鍵盤點擊 'F2', 輸入 RS-232 設定並進行連接

СОМБ	•
Serial Port	
Baud Rate: 115200	] IP: 192.168.255.1
Data Bit: 8	Port: 10000
Parity: 0(None)	]
Stop Bit 1	]

## 步驟 5: 找到要上傳的程式資料夾路徑

Name	Size	Туре	Modified	Attributes
🧱 7188xw.exe	46KB	EXE File	2015/9/1 下午 03:59	A
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	A
autoexec.bat	1KB	BAT File	2023/11/3 下午 04:55	A
🖻 gps.c	1KB	C File	2015/9/1 下午 03:59	A
GPS.DSK	1KB	DSK File	2022/5/3 下午 04:12	A
GPS.EXE	44KB	EXE File	2022/5/3 下午 04:12	A
@ 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
www.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

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步驟 6: 右鍵點擊要上傳之程式,並點選'Upload'.

GPS EXE					
a GPS.OBJ	Upload	F5	20		
gps.prj upload sop.docx upload_sop.txt	Upload & Execute[RAM]				
	Update MiniOS7 Image				
	DOS	F11			

## 步驟 7: 上傳完後,您可使用任何通訊軟體連接至 RS-232 Port

#### Reputition Putty Configuration X Category: - Session Basic options for your PuTTY session Logging Specify the destination you want to connect to - Terminal Serial line Speed - Keyboard COM6 115200 - Bell - Features Connection type: C Raw C Adb C Teln∈ C Rlogi C SSH ⊙ Seri - Window - Appearance Load, save or delete a stored session Behaviour Saved Sessions - Translation Selection Colours Default Settings Load - Connection NMC-9181 - Data adb Save gtp-541 - Proxy Delete - Telnet Rlogin + SSH - Serial Close window on exit: Only on clean exit C Always C Never About Open Cancel

#### ※以 Putty.exe 為例,畫面如下圖:

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## 步驟 8: 輸入'RUN'可執行程式

## ※輸入 "q" 可退出程式

🖉 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
\$GPGLIV.N*64

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Q02: 使用 7188.exe 上傳檔案出現" 系統找不到檔案" 或是" Can not use COM xx" 錯誤,如何解決?

7188xw Version 1.38.0 (2009/08/20)[By Tim Tsai.] Open [\\.\COM99] error:条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: 如果畫面出現 '系統找不到指定檔案' 或 'can not use port'. 請參考下列步驟

步驟 1: 開啟 7188xw.ini 檔案,將 port num 修改為正確的 RS-232 Port

※前綴的第一個英文字母不需修改



步驟 2: 開啟 7188.exe 確認修改是否正確



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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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