



# FAQ Manual

Version 1.0.0 Oct 2023

## G-451x Series

4G Power Saving PAC with Solar charger



# Table of Contents

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|   |           |
|---|-----------|
| <b>1. FAQ</b> .....   | <b>4</b>  |
| Q01: G-451x Series How to upload files? .....   | 4         |
| Method 1 : Use 7188.exe to upload the program.....  | 4         |
| Method 2 : Use MiniOS7 Utility to upload the program. ....  | 7         |
| Q02: How to solve the error of "Can not use COM xx" or "System cannot find file" when uploading files using 7188.exe? ..... | 11        |
| <b>Appendix A. Revision History</b> .....   | <b>12</b> |

# Important Information

## Warranty

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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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## Contact us

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If you have any problem, please feel free to contact us. You can count on us for quick response.

Email: [service@icpdas.com](mailto:service@icpdas.com)

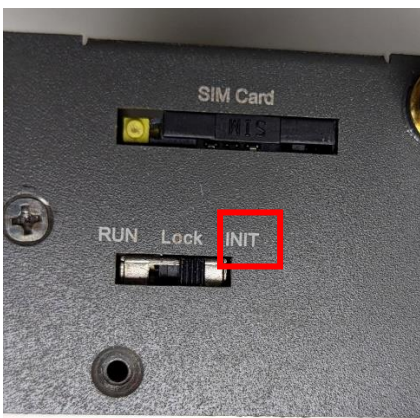
# 1. FAQ

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

| CN2 Pin Assignment         |       |        |       |            |               |
|----------------------------|-------|--------|-------|------------|---------------|
| Analog Input<br>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 | MCU2 Input |               |

| 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      |                |
| COM1 RS-232                   | CTS1   | Pin 17 | Pin 7  | DO0      | COM2 RS-485    |
|                               | RTS1   | Pin 16 | Pin 6  | D+       |                |
|                               | RxD1   | Pin 15 | Pin 5  | D-       |                |
|                               | TxD1   | Pin 14 | Pin 4  | GND      |                |
| Power Input:<br>+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   |

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

```
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>
```

步驟 5: 當 'uP-4500 >' 出現後, 請輸入 'load'.

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

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:
```

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

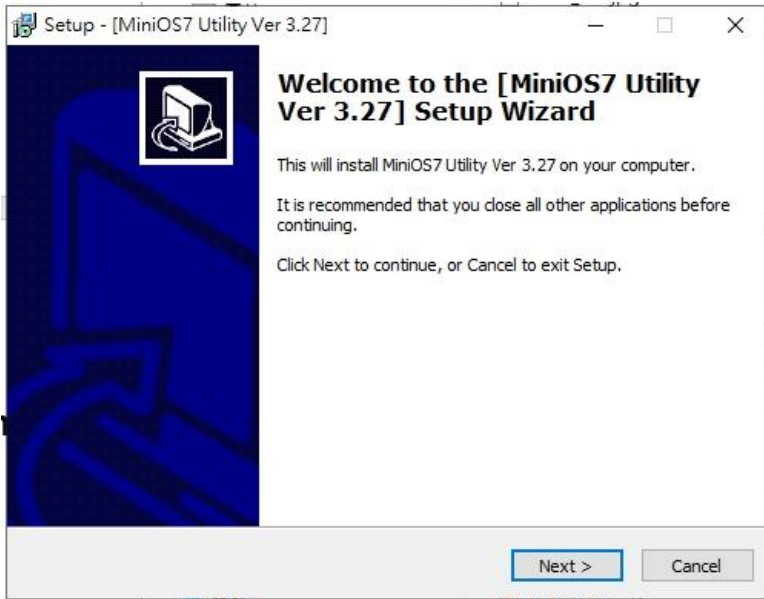
※輸入 "q" 可退出程式.

```
uP-4500>run
G4500.Lib vesion 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
```

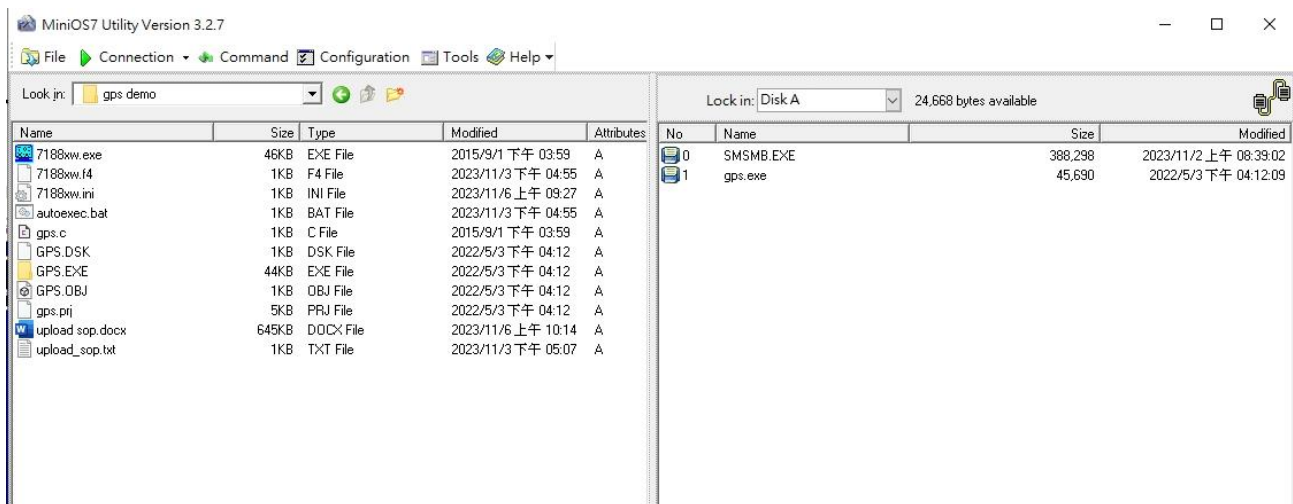
## 方法 2：使用 MiniOS7 Utility 上傳程式

步驟 1: 請先點擊連結下載 [MiniOS7 Utility V327.exe](#)

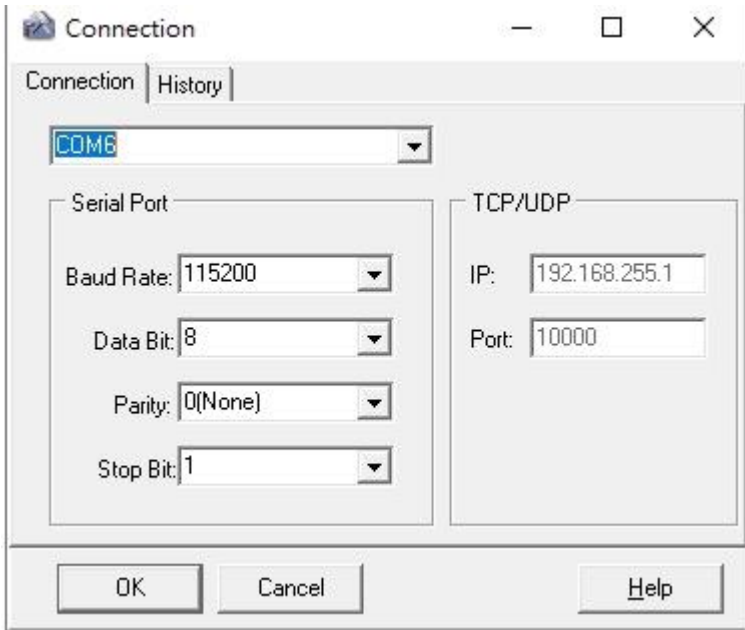
步驟 2: 並依步驟進行安裝



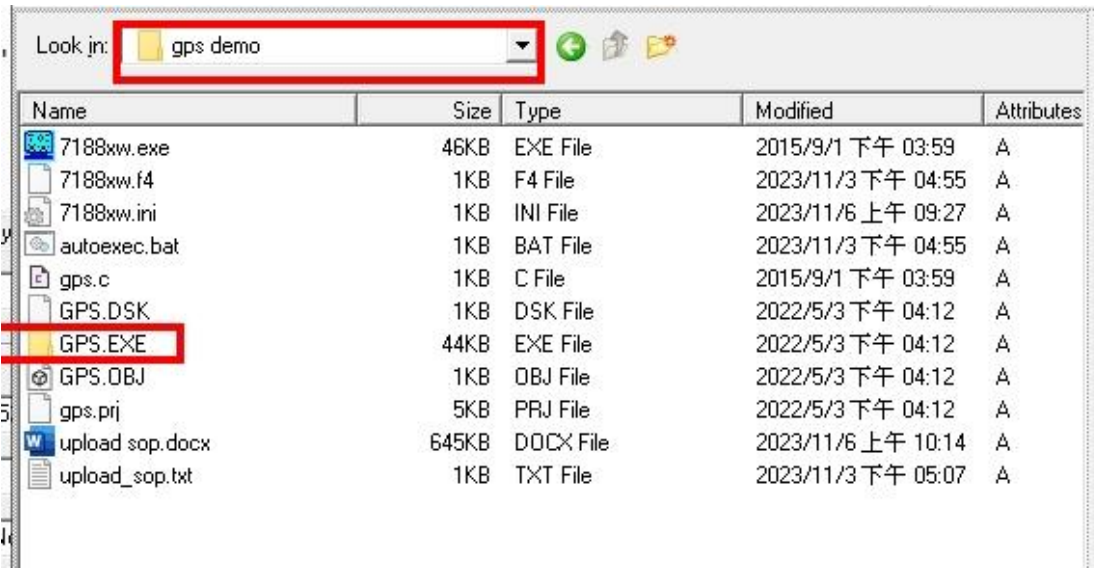
步驟 3: 開啟 [MiniOS7\\_Utility.exe](#)



步驟 4: 鍵盤點擊 'F2'，輸入 RS-232 設定並進行連接

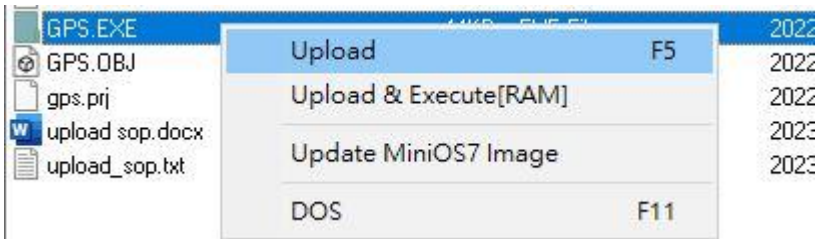


步驟 5: 找到要上傳的程式資料夾路徑



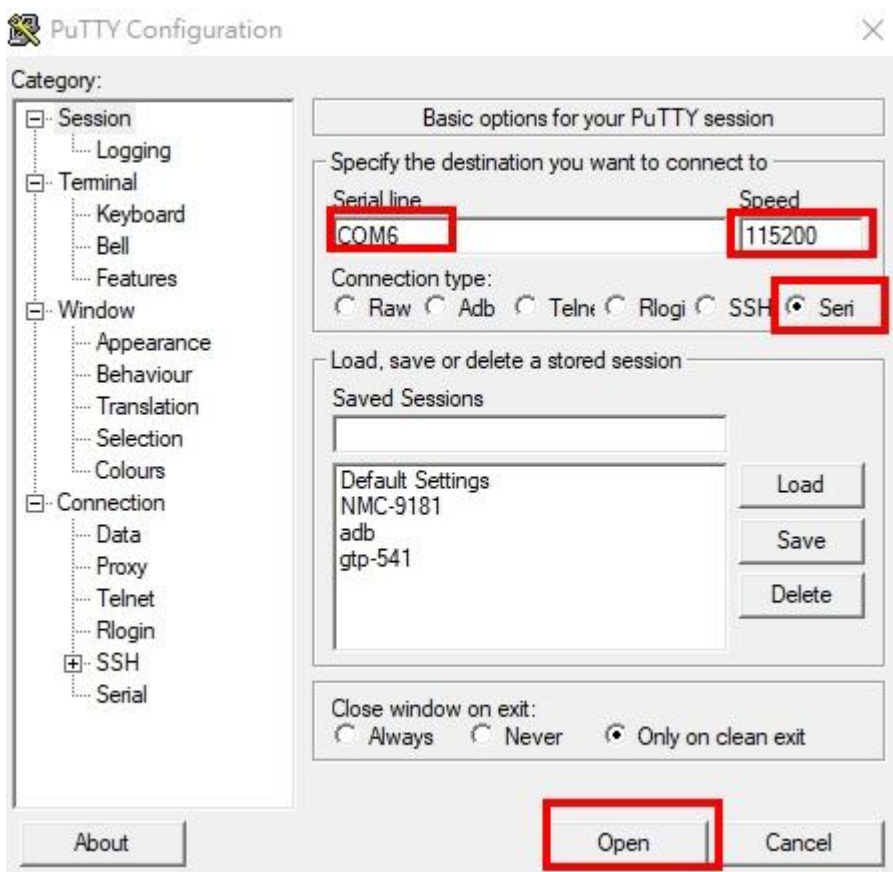


步驟 6: 右鍵點擊要上傳之程式，並點選'Upload'.



步驟 7: 上傳完後，您可使用任何通訊軟體連接至 RS-232 Port

※以 Putty.exe 為例，畫面如下圖:



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 vesion: 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 ] *****

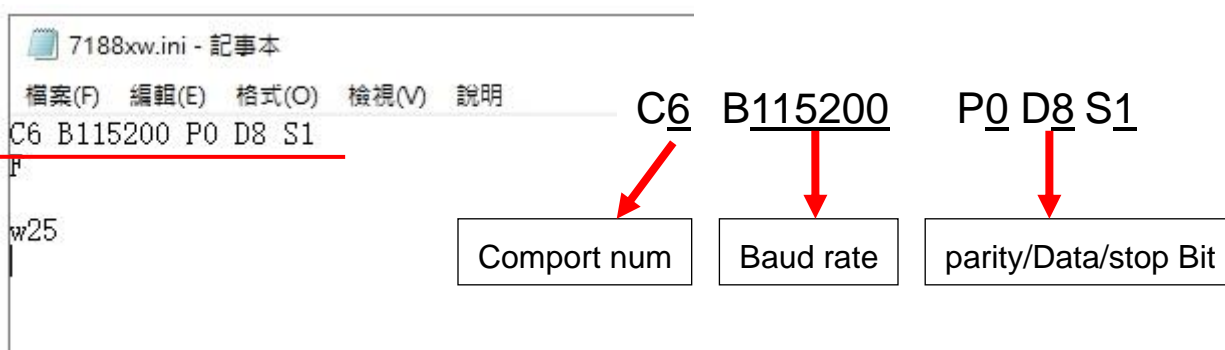
$GPRMC,V,,,,,,,,,N*53
$GPVTG,,,,,,,,N*30
$GPGGA,,,,,0,00,99.99,,,,*48
$GPGSA,A,1,,,,,,,,,99.99,99.99,99.99*30
$GPGSV,3,1,10,03,,18,06,,13,08,,19,09,,23*7C
$GPGSV,3,2,10,10,,17,11,,21,12,,25,21,,21*79
$GPGSV,3,3,10,31,,21,32,,15*7C
$GPGLL,,,,,,,,,V,N*64
```

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: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: 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

```
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!
PuP-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 |