

Date 2013/06/06

Package Checklist

The package includes the following items:

- One G-4511-2G hardware module
- One Quick Start (this manual)
- One companion CD
- One RS-232 download cable (CA-0910)
- One 2G antenna
- One GPS antenna (only for G-4511P-2G, G-4511PD-2G)
- Screw Driver
- Two mounting screws
- Two L-type wall mount flat pieces

	G-4511
Casing	Metal
Dimensions	47 mm x 142 mm x 168 mm (W x L x H)
Installation	DIN-Rail and Wall mount

Related Documents and Software Utilities

Documents

- User Manual: G-4511-2G_User_Manual.pdf
- Quick Start: G-4511-2G_QuickStart.pdf
- CD: \napdos\G-4511-2G\Manual
- http://ftp.icpdas.com/pub/cd/usbcd/napdos/G-4511-2G/manual

MiniOS7 Utility

 Http://ftp.icpdas.com/pub/cd/8000cd/napdos/minios7/utility/mini os7_utility/

Pin Assignments

G-4511(D)-2G					G-4511P(D)-2G				
[LED Indica	ators		l	ED Indica	itors	_		
GPRS	○n/a 🧲	GPRS 🧲	Sys		GPS 🔵	GPRS 🔴 Sys	GPRS		
	6	Fault 🧲	Charge		0	Fault Ocharge			
		GPS	•88 • • 88						
		С	N2 Pin /	lssignm	ient		h 		
		AI7	Pin 16	Pin 8	AGND				
		AI6	Pin 15	Pin 7	AGND	Analog Ground			
16 8		AI5	Pin 14	Pin 6	AGND		16 8		
	Analog Input	AI4	Pin 13	Pin 5	AGND				
	0 ~ +20 mA	AI3	Pin 12	Pin 4	DI2				
	-	AI2	Pin 11	Pin 3	DI1				
		AI1	Pin 10	Pin 2	DI0		i se s		
9 l		AI0	Pin 9	Pin 1	U2 DI	MCU2 Input	9 1 20 10		
	Г	CN1 Pin Assignment							
		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	DO1				
		CTS1	Pin 17	Pin 7	DO0				
	COM1 RS-232	RTS1	Pin 16	Pin 6	D+	COM2 BS-485			
	00000 100 202	RxD1	Pin 15	Pin 5	D-	0011211091005			
Front View		TxD1	Pin 14	Pin 4	GND	Ground For COM1	Front View		
FIGHT VIEW	Power Input:	DC.+VS	Pin 13	Pin 3	BAT.+VS	12V Lead Acid	TOTIC VIEW		
	+10 ~ +30 VDC	DC.GND	Pin 12	Pin 2	BAT.+GND	Battery			
		N/A	Pin 11	Pin 1	F.G.	Frame Ground			

Dimensions (Unit: mm)



Installation

- 1. Install 2G Antenna.
- 2. Plug in the normal SIM card (Before apply the SIM card, confirm it is OK by mobile phone.)
- 3. Connect the DC.+VS and DC.GND to the power supply or Solar Panel.
- 4. Connect BAT.+VS and BAT.GND to the 12V Lead Acid Battery.



Operation Mode Switch

Operation Mode Switch					
RUN	OS can execute autoexec.bat				
	Flash can be read/write.				
LRun	OS can execute autoexec.bat				
	Flash is read only (lock).				
INIT	OS can not execute autoexec.bat				
	Flash can be read/write.				

Wire Connection

• Digital Input Wire Connection



• Digital Output Wire Connection

Input Type	ON State DO value as 1	OFF State DO value as 0
Drive Relay		
Resistance Load		$ \begin{array}{c c} -\underline{\mathbb{Z}} \times \underline{-\overline{\mathbb{T}}} & \bigcirc & \text{DOx} \\ \hline & & & \bigcirc & & \text{GND} \end{array} $

• Current Input Wire Connection

• Relay Wire Connection



> Wake up from Sleep mode

- 1. When G-4511 was in sleep mode, you can connect the Pin "U2 DI" (MCU2 DI) to GND. to awaking G-4511 from sleep mode.
- 2. You will read "U2 DI" as 0, when you connect "U2 DI" to GND.



Install MiniOS7 Utility

The installation software can be obtained from: http://ftp.icpdas.com/pub/cd/8000cd/napdos/minios7/utility/minio s7_utility/

Launch MiniOS7 Utility



Select connect G-4511 to Host PC

😡 File	Constitution -	. Comme	1 3 0	Configuration 🛅 Tools	🥔 Help 🔹			
.ook jr	ok Rev connection F2					Lock in: Disk A		
Vame	Disconnect	Ctrl+F2	Size	Туре	Modified	Attributes	No	Name
bin	Search	F12		File Folder	2008/4/1 上午 10:08			
FIRM	/ARE			File Folder	2008/4/1 上午 10:08			
OS_IM.	AGE			File Folder	2008/4/1 上午 10:08			
37188eu	u.ini		1KB	組態設定値	2008/8/11 上午 11:53	A		
7188xv	v.ini		1KB	組態設定値	2008/7/18下午 01:18	A		
icpdas			1KB	網際網路捷徑	2008/4/1 上午 10:08	A		
load23	2.dll		88KB	應用程式擴充	2007/1/31 下午 12:52	A		
D Millione	7 Hillitu olara	्त	OVERD	司給課的 UTML UN	2007/2/2 に 末江 05-50	A		

> Setup the COM Port parameter

Look in: MiniUS7_Utility	<u> </u>	P		Lock
Name Din FIRMWARE S S_IMAGE 7188eu.ini 7188xw.ini Dod232.dll MiniOS7_Utility.chm MiniOS7_Utility.exe MiniOS7_Utility.ini test.txt text4.kml uart.dll unins000.dat wins000.exe	Size Type File Folder File Folder Connection Connection History CDM1 Serial Port Baud Rate: 115200 Data Bit: 8 Parity: 0(None) Stop Bit: 1 OK. Cance	│ Modified 2008/4/1 上午 1	Attributes 0:08	No N

Note: G-4511 default COM Port parameter 115200, 8, N, 1

Download Demo into the G-4511

- 1. You can be obtained from the following location: CD: \napdos\G-4511-2G\Software\Demo <u>Http://ftp.icpdas.com/pub/cd/usbcd/napdos/G-4511-</u> <u>2G/software/demo</u>
- 2. Click the "Look in" pull-down menu to the location of Demo.
- 3. Drag-and-drop the files from left hand window to right hand window.



RUN the Demo

Step1.

🚵 MiniOS7 Utility Veric	on 3.1.6						_ 0 🛛
🔯 File 🌔 Connection 👻	🚸 Command 🛐 Co	nfiguration 🛅 :	fools 🥔 Help 🔹				
Look jn: 🛅 Demo 🔽 🧿 🌮					Lock in: Disk A 💌 302,986 bytes available	s: available	
Name	Size	Туре	Modified	Attributes	No Name	Size	Modified
GPPASEAC	152KB J	應用程式	2008/8/11 平平 06:04	A	Chilling gons.arr Rest Munology Rest Munology Ensee Disk	155,702	2008/8/11 7 4 06:04:04

Step2. Key in the command, "run", to implement the execution file.



Technical Support

- 1. ICP DAS Service : <u>service@icpdas.com</u>
- 2. G-4511 software Website: http://m2m.icpdas.com/g-4511.html