

G-4514-4G Series Quick Start

Version 1.0 April 2018

1 Product Content

In addition to this Quick Start, this product also includes these accessories:



G-4514-4G



4G Antenna (ANT-421-04)



GPS Antenna (ANT-115-03)

(GPS Antenna only provide with G-4514P-4G and G-4514PD-4G)



RS-232 Cable (CA-0910)



Software Utility CD



Screwdriver



L-shaped side fixing piece

2 Related Documents and Software Utilities

G-4514-4G Series Related Documents and Software Utilities

http://ftp.icpdas.com/pub/cd/usbcd/napdos/g-4514-4g

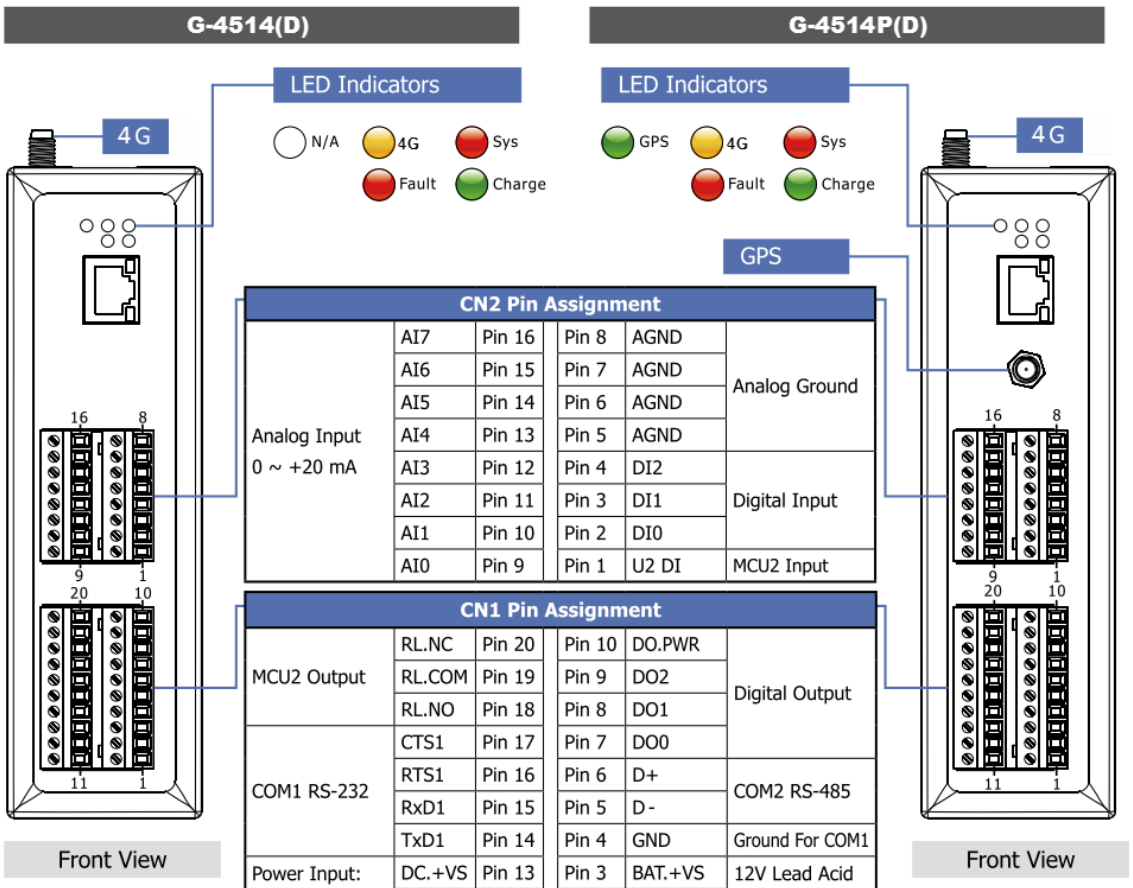
MiniOS7 Utility

http://ftp.icpdas.com/pub/cd/8000cd/napdos/minios7/utility/minios7_utility/

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3 Hardware Installation

Pin Assignments



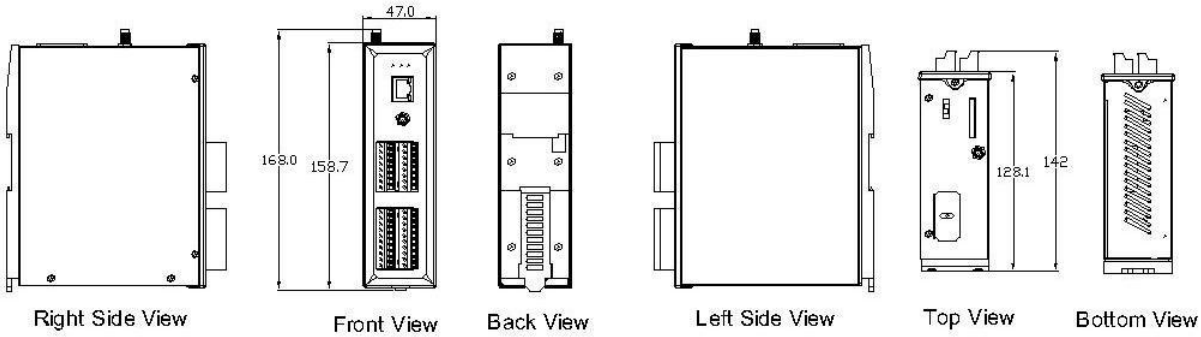
CN2 Pin Assignment

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	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	
	RTS1	Pin 16	Pin 6	D+	COM2 RS-485
	RxD1	Pin 15	Pin 5	D-	
	TxD1	Pin 14	Pin 4	GND	Ground For COM1
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

Dimensions



Unit : mm

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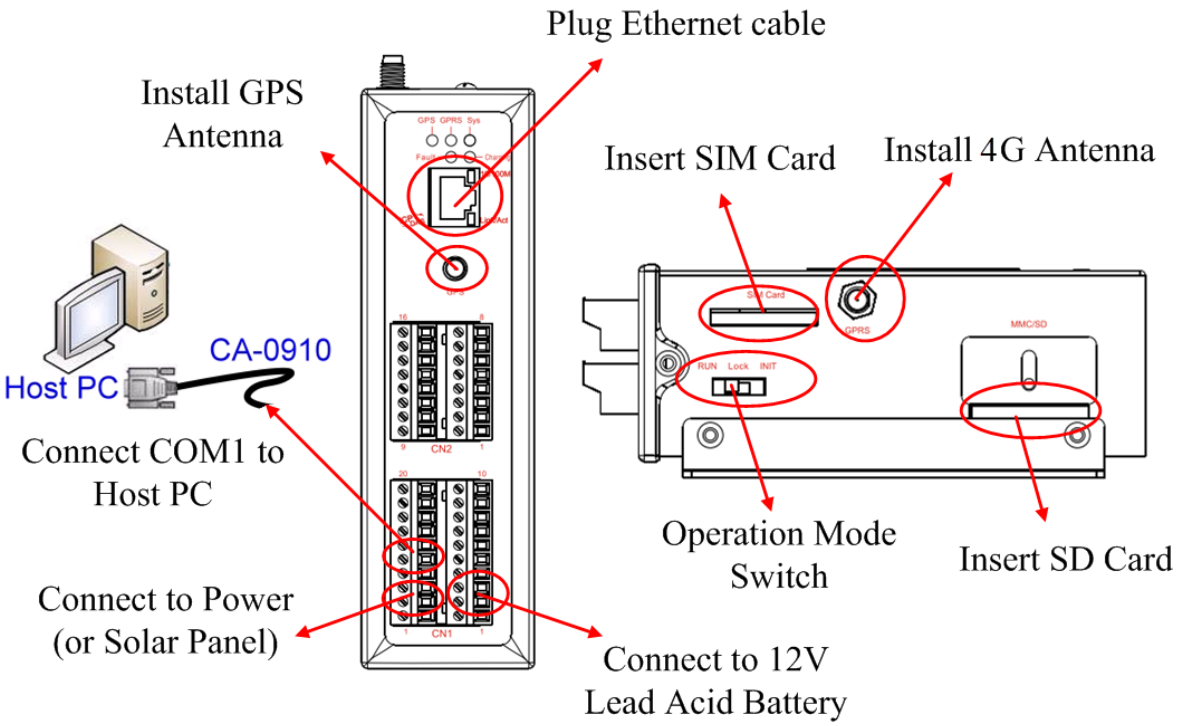
Installation

Step 1: Install 4G antenna.

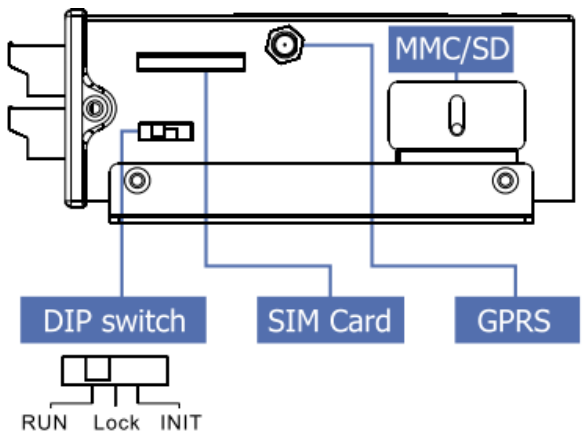
Step 2: Plug in the normal SIM card (Before apply the SIM card, confirm it is OK by mobile phone.)

Step 3: Connect the DC.+VS and DC.GND to the power supply or Solar Panel.

Step 4: Connect BAT.+VS and BAT.GND to the 12V Lead Acid Battery.



Operation Mode Switch

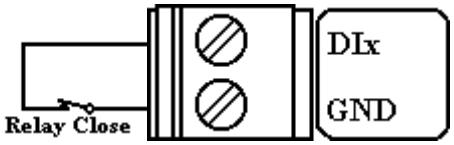
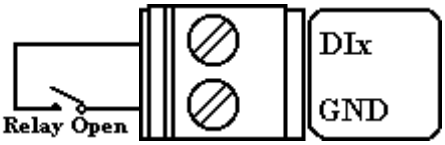
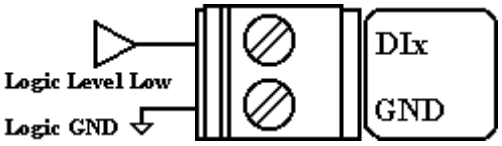
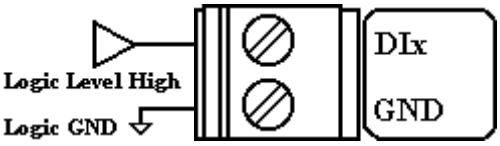
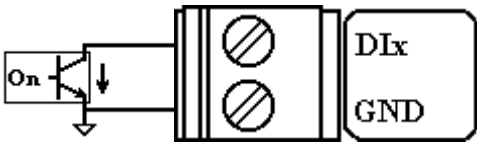
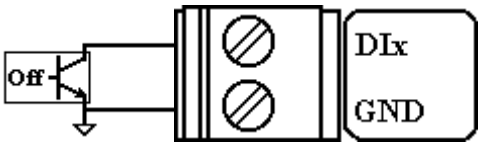


Operation Mode Switch	
RUN	OS can execute autoexec.bat
	Flash can be read/write.
LRun	OS can execute autoexec.bat
	Flash is read only (lock).
INIT	OS can not execute autoexec.bat
	Flash can be read/write.

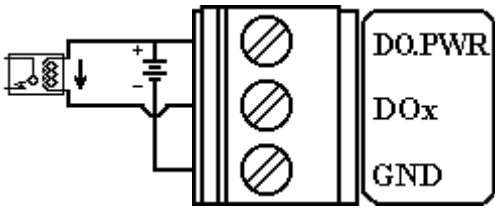
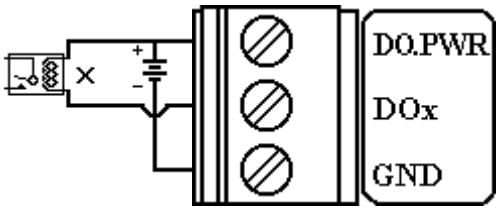
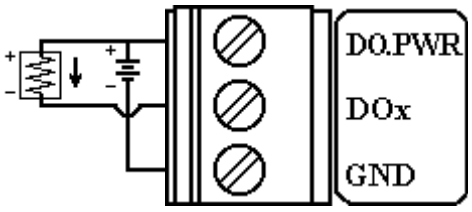
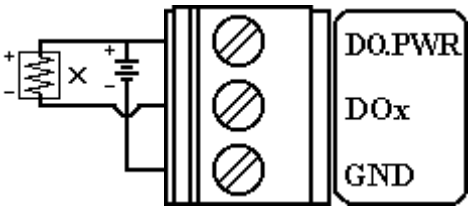
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Wire Connection

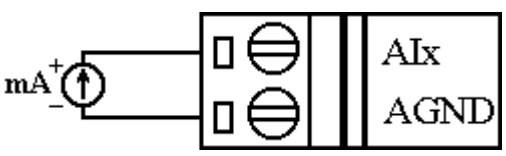
➢ Digital Input Wire Connection

Input Type	ON State DI value as 0	OFF State DI value as 1
Relay Contact		
TTL/CMOS Logic		
Open Collector		

➢ Digital Output Wire Connection

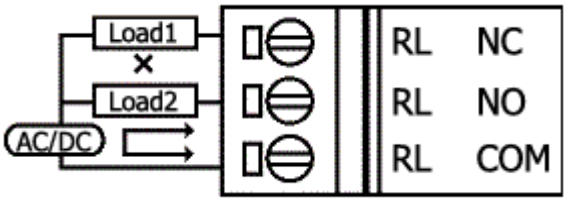
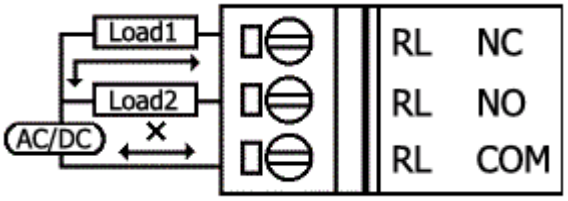
Input Type	ON State DO value as 1	OFF State DO value as 0
Drive Relay		
Resistance Load		

➢ Current Input Wire Connection

Input Type	
	

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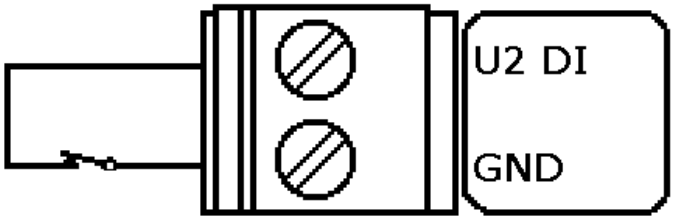
➢ **Relay Wire Connection**

Relay Output ON	Relay Output OFF
	

Wake up from Sleep mode

Step 1: When G-4514 was in sleep mode, you can connect the Pin “U2 DI” (MCU2 DI) to GND. to awaking G-4514 from sleep mode.

Step 2: You will read “U2 DI” as 0, when you connect “U2 DI” to GND.



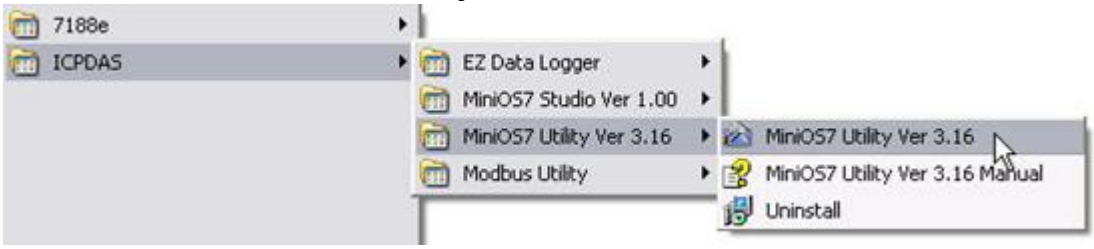
4 Download and Run Programs

4.1 Install MiniOS7 Utility

The installation software can be obtained from：

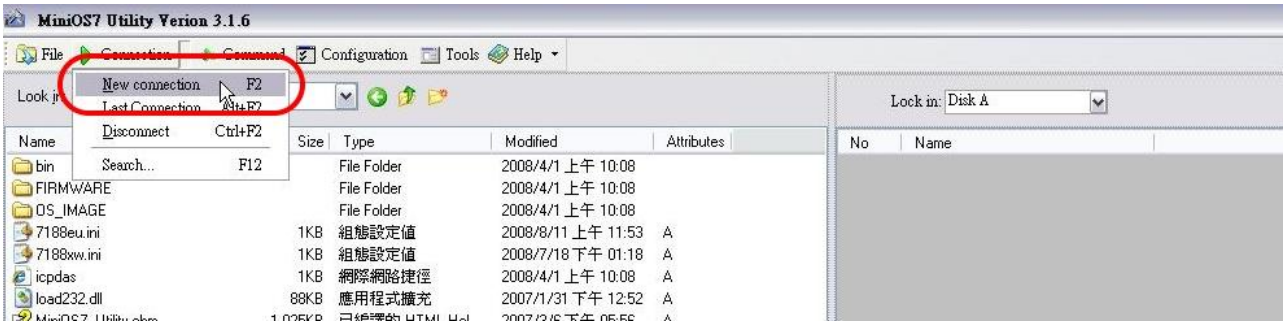
http://ftp.icpdas.com/pub/cd/8000cd/napdos/minios7/utility/minios7_utility/

4.2 Launch MiniOS7 Utility

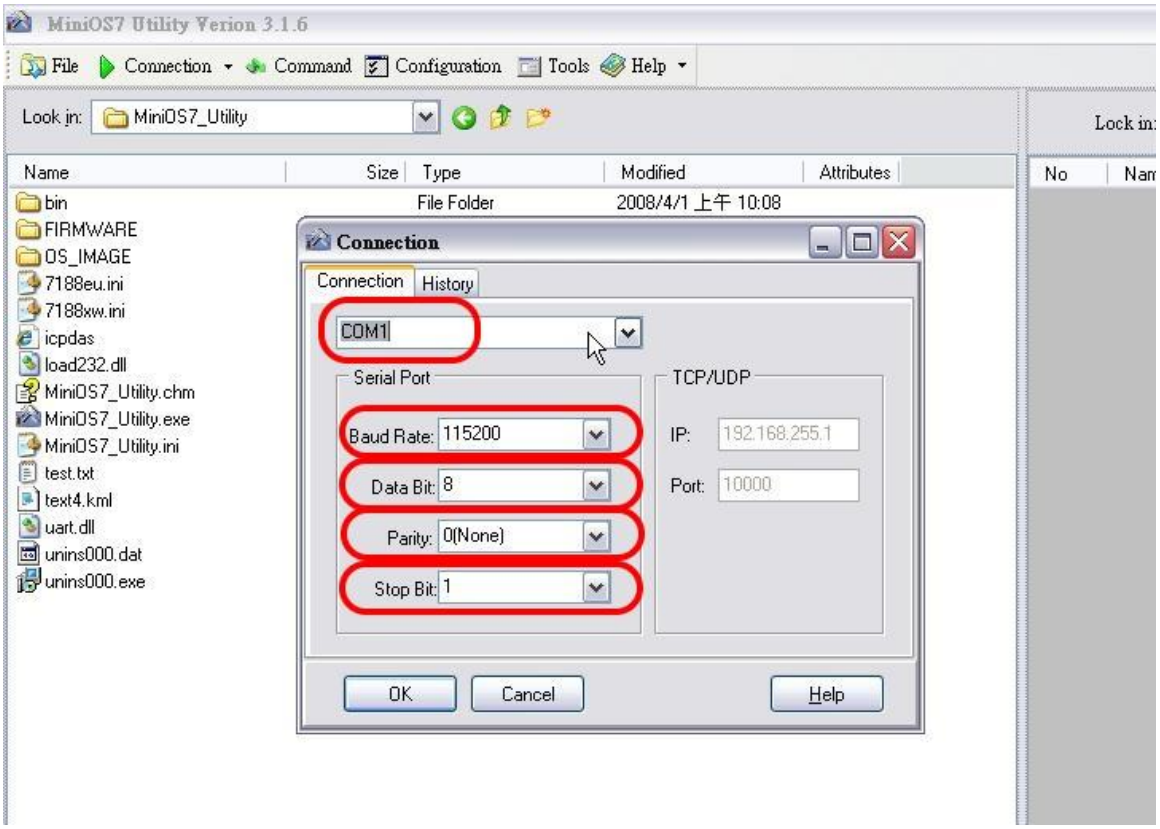


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4.3 Select connect G-4514 to Host PC



4.4 Setup the COM Port parameter



Tips & Warnings

G-4514 default COM Port parameter: 115200, 8, N, 1

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4.5 Download Demo into the G-4514

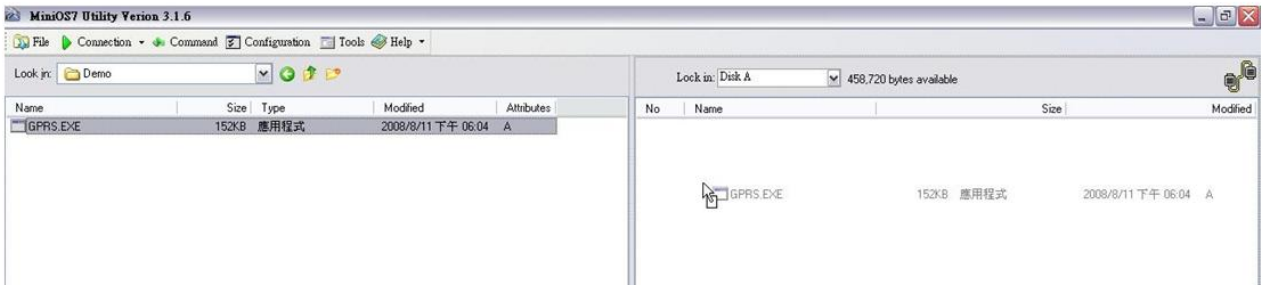
A. You can be obtained from the following location：

CD: \napdos\G-4513\Software\Demo

http://ftp.icpdas.com/pub/cd/usbcd/napdos/g-4514-4g/software/demo

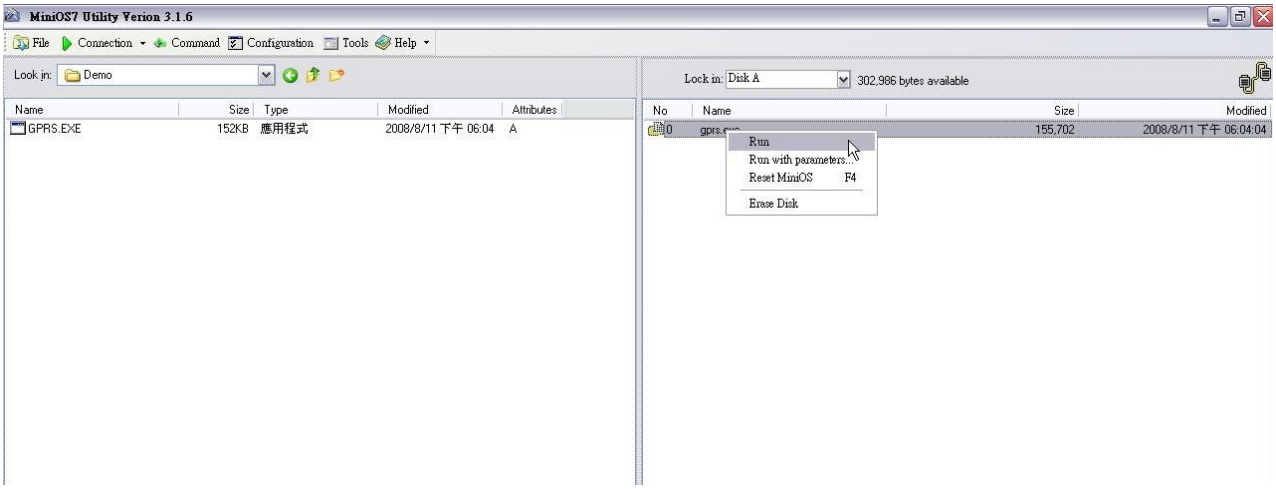
B. Click the “Look in” pull-down menu to the location of Demo.

C. Drag-and-drop the files from left hand window to right hand window.



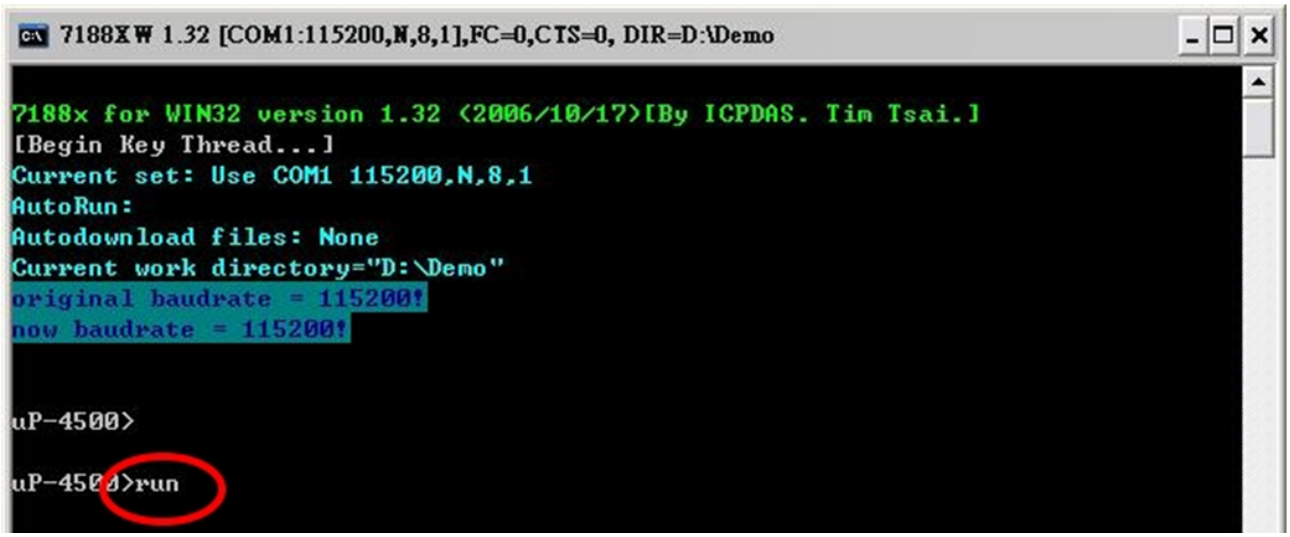
4.6 RUN the Demo

Step 1：Click “Run” .



Step 2：Key in the command, “run”, to implement the execution file.

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5 Technical Support

If you have problems about using the G-4514-4G series, please contact ICP DAS product support.

Email：Service@icpdas.com

G-4514-4G Series Website：

http://m2m.icpdas.com/g-4514-4g-series.html

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