G-4511-2G Series
Quick Start

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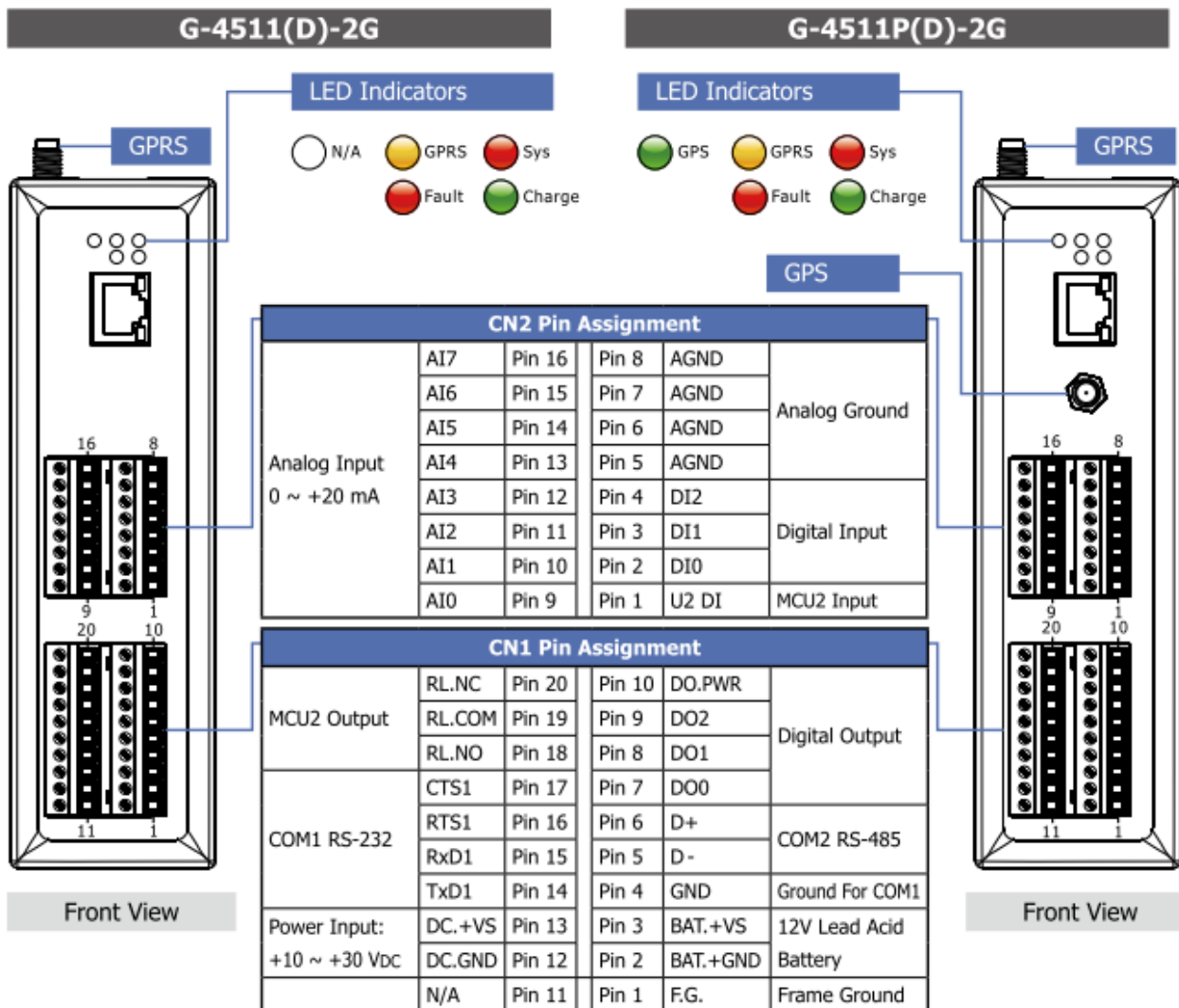### Documents
- User Manual: G-4511-2G_User_Manual.pdf
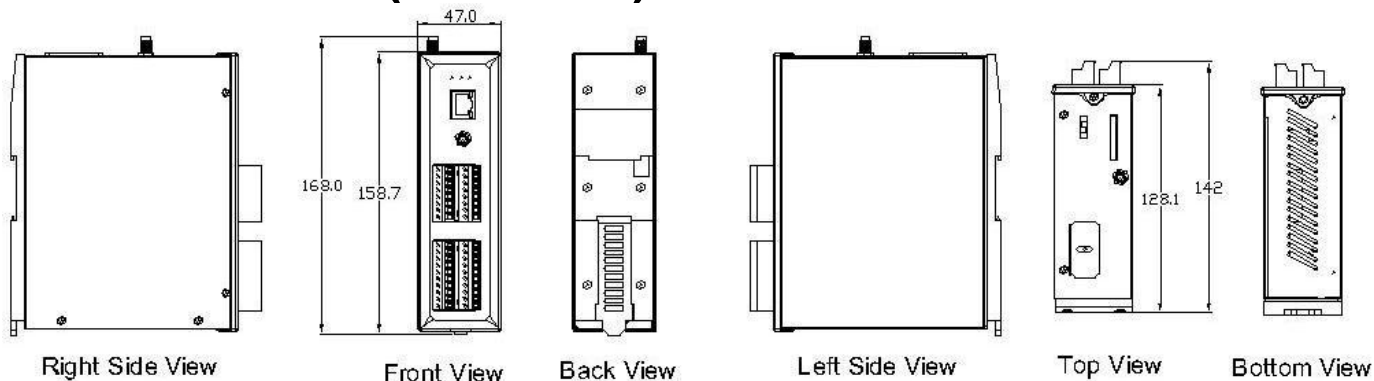- Quick Start: G-4511-2G_QuickStart.pdf
- CD: \napdos\G-4511-2G\Manual
- http://ftp.icpdas.com/pub/cd/usbcd/napdos/G-4511-2G/manual

MiniOS7 Utility
- Http://ftp.icpdas.com/pub/cd/8000cd/napdos/minios7/utility/minios7_utility/

➢ Pin Assignments

G-4511(D)-2G

G-4511P(D)-2G

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 Battery
	DC.GND	Pin 12	Pin 2	BAT.+GND	
	N/A	Pin 11	Pin 1	F.G.	Frame Ground

➢ Dimensions (Unit: mm)

Right Side View   Front View   Back View   Left Side View   Top View   Bottom View

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.
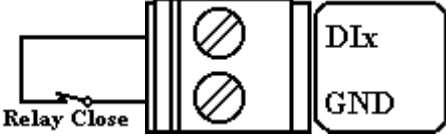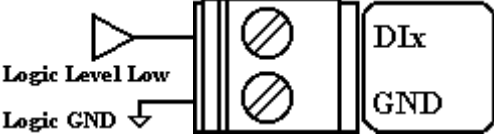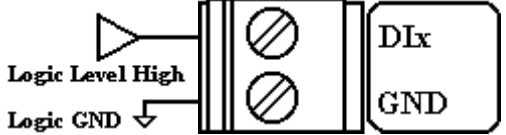4. Connect BAT.+VS and BAT.GND to the 12V Lead Acid Battery.
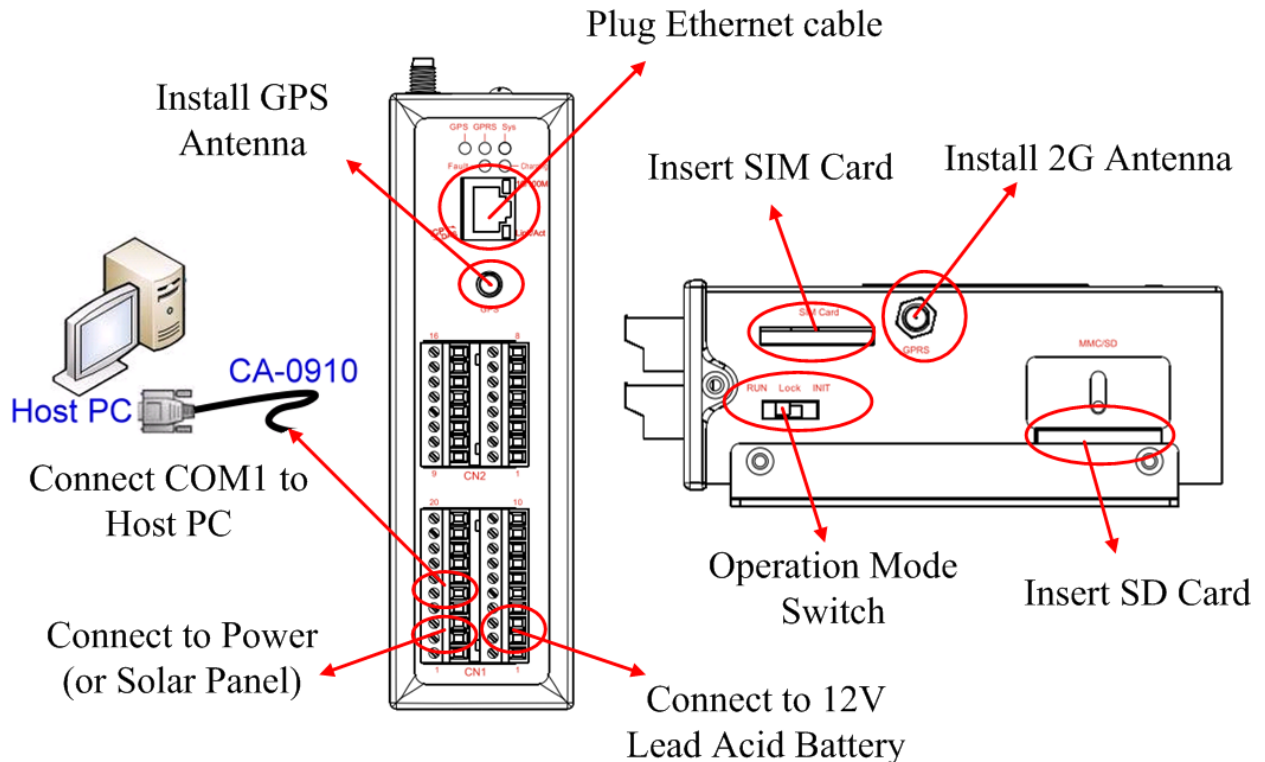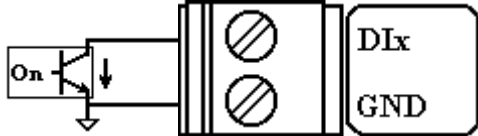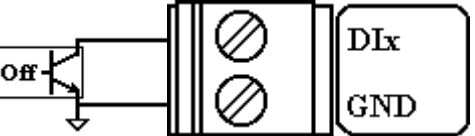
➢ Operation Mode Switch
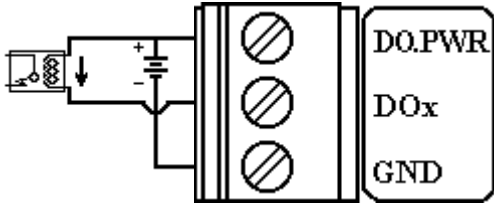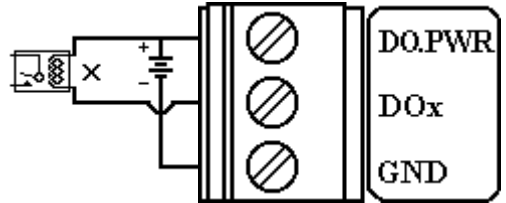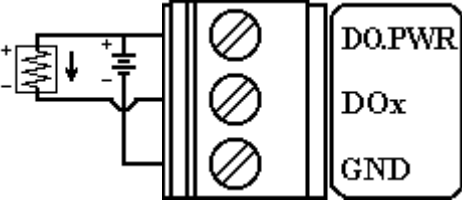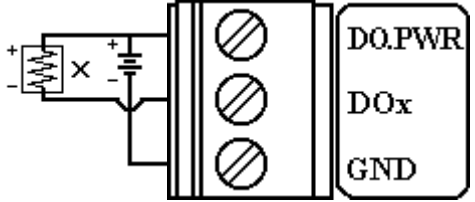
Operation Mode Switch	
RUN	OS can execute autoexec.bat
	Flash can be read/write.
LRun	OS can execute autoexec.bat
	Flash is read only (lock).
INIT	OS can not execute autoexec.bat
	Flash can be read/write.

➢ Wire Connection
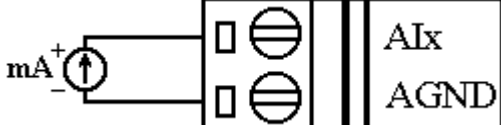
- ● Digital Input Wire Connection

Input Type	ON State DI value as 0	OFF State DI value as 1
Relay Contact	Relay Close / DIx / GND	Relay Open / DIx / GND
TTL/CMOS Logic	Logic Level Low / Logic GND / DIx / GND	Logic Level High / Logic GND / DIx / GND
Open Collector	On / DIx / GND	Off / DIx / GND

- ● Digital Output Wire Connection

Input Type	ON State DO value as 1	OFF State DO value as 0
Drive Relay	DO.PWR / DOx / GND	DO.PWR / DOx / GND
Resistance Load	DO.PWR / DOx / GND	DO.PWR / DOx / GND

- ● Current Input Wire Connection

Input Type	
Input Type	mA⁺⁻ / AIx / AGND

● Relay Wire Connection

Relay Output ON	Relay Output OFF
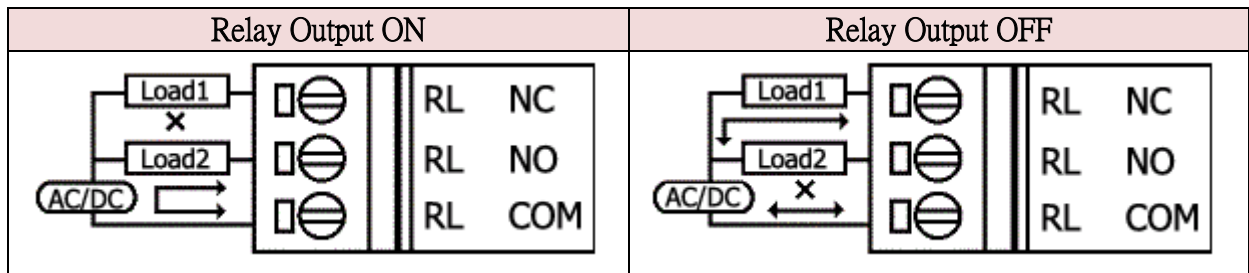
➢ Wake up from Sleep mode

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.
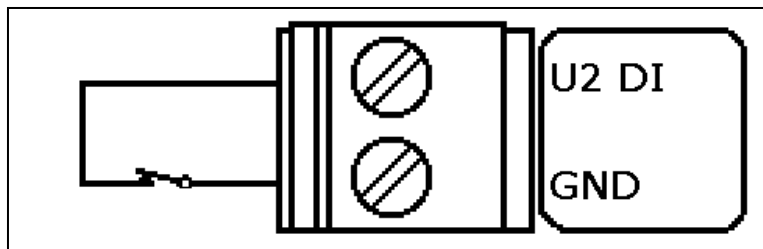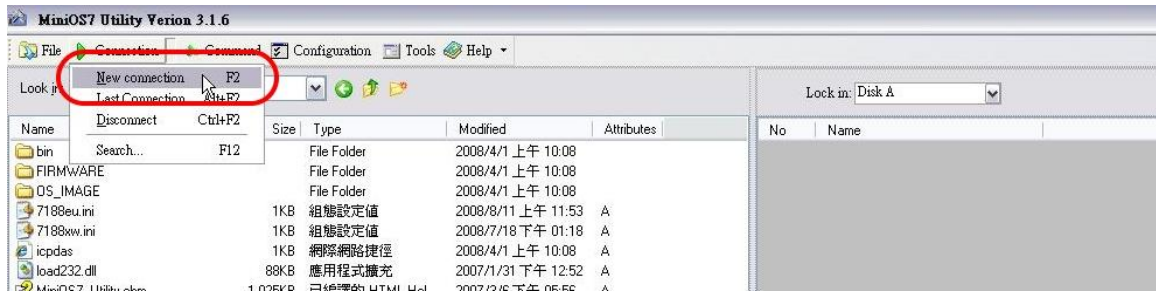

➢ Install MiniOS7 Utility

The installation software can be obtained from:
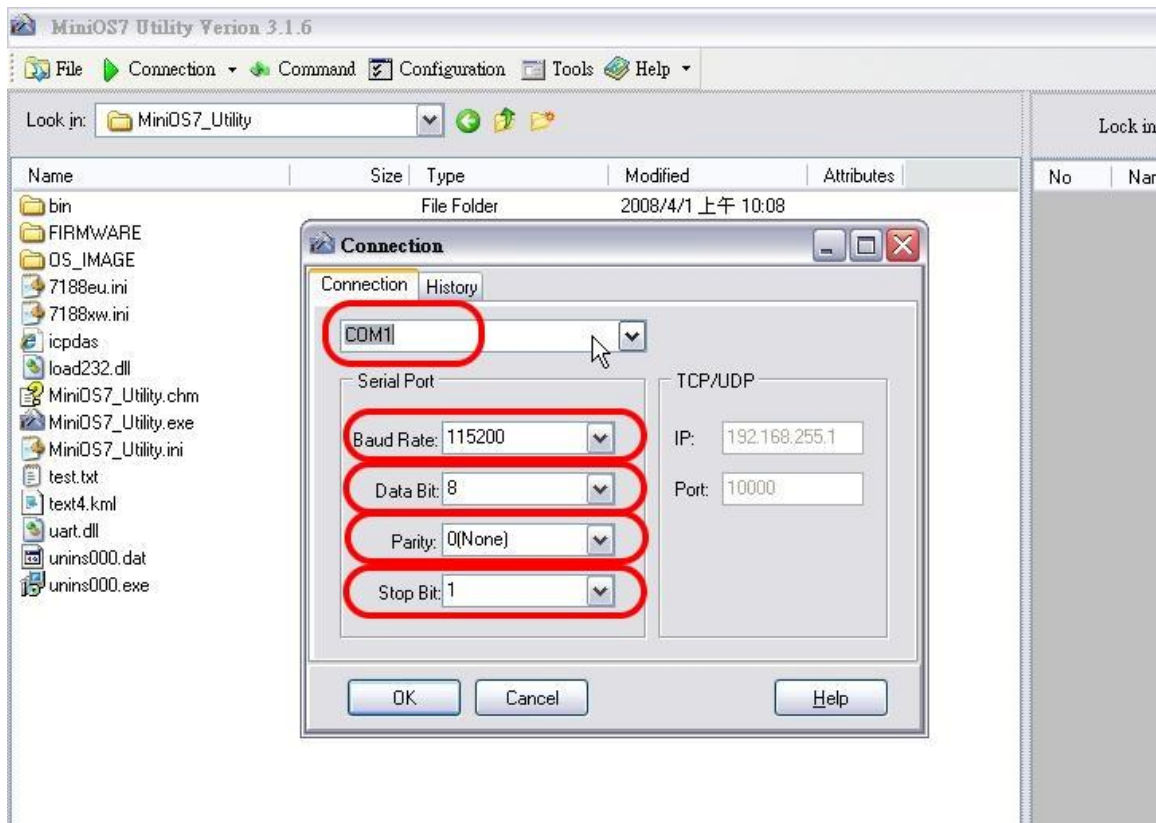http://ftp.icpdas.com/pub/cd/8000cd/napdos/minios7/utility/minios7_utility/

➢ Launch MiniOS7 Utility

## ➢ Select connect G-4511 to Host PC

➢ Setup the COM Port parameter

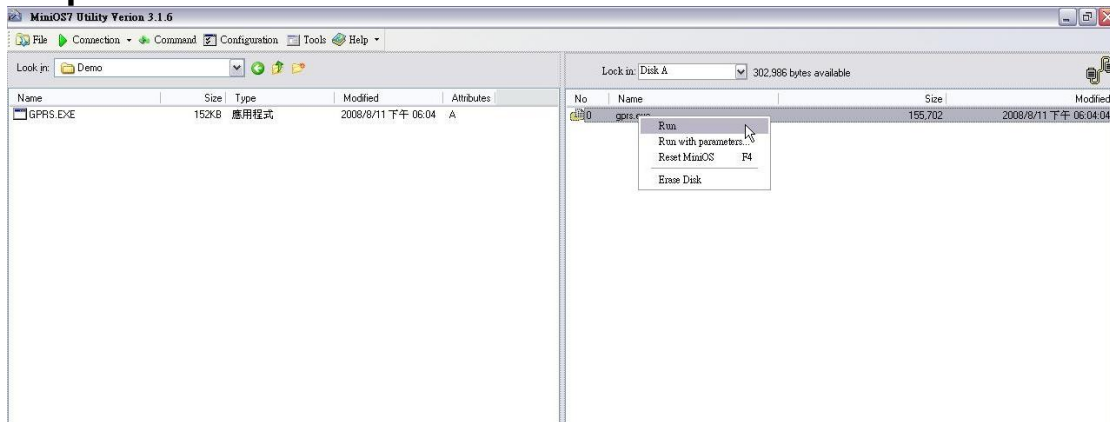**Note: G-4511 default COM Port parameter 115200, 8, N, 1**

➢ Download Demo into the G-4511

1. You can be obtained from the following location:
   CD: \napdos\G-4511-2G\Software\Demo
   Http://ftp.icpdas.com/pub/cd/usbcd/napdos/G-4511-2G/software/demo

2. Click the "Look in" pull-down menu to the location of Demo.

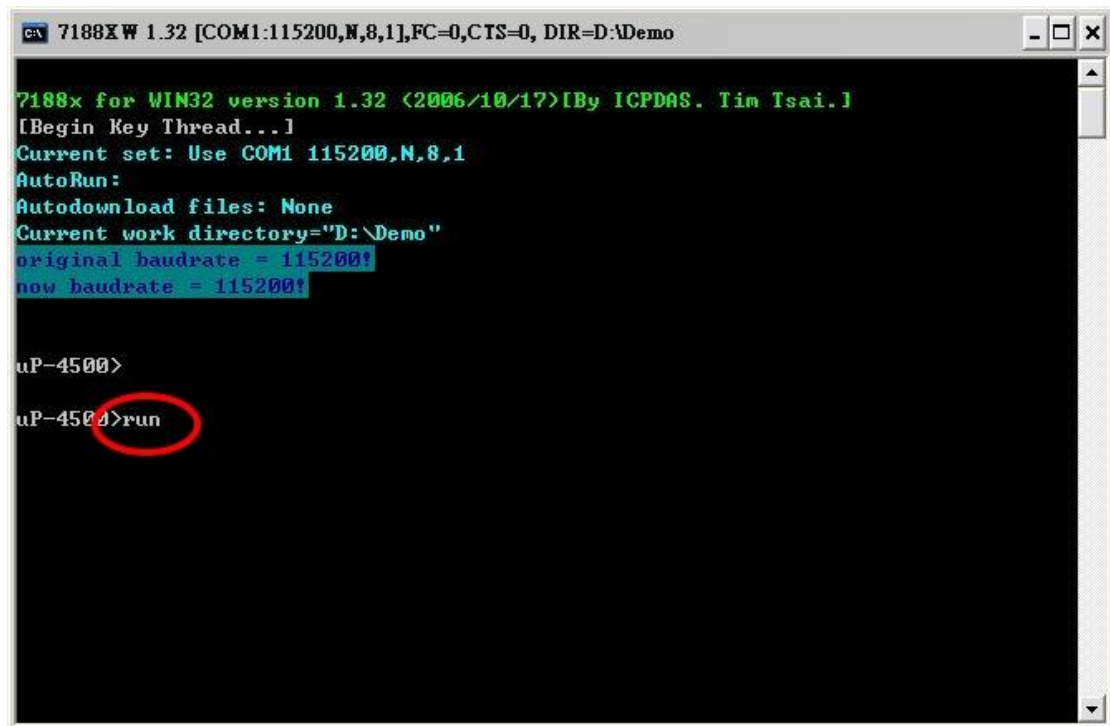3. Drag-and-drop the files from left hand window to right hand window.
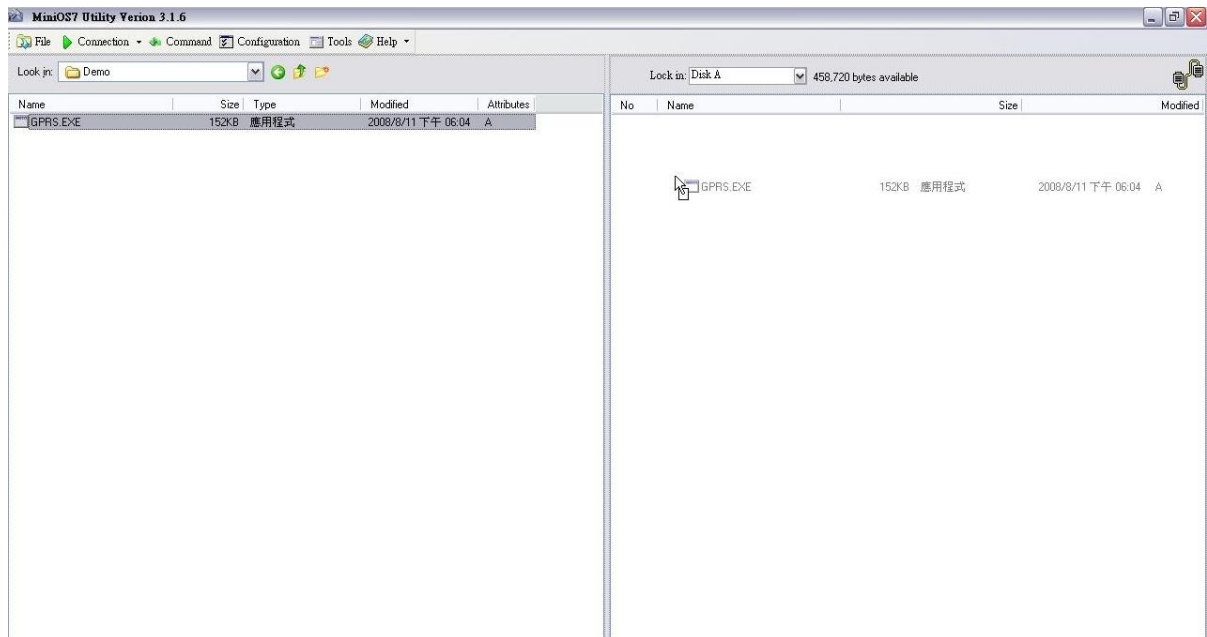
➢ RUN the Demo

Step1.

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

➢ Technical Support

1. ICP DAS Service : **service@icpdas.com**

2. G-4511 software Website:
http://m2m.icpdas.com/g-4511.html