G-4513-3GWA Quick Start

Sep 2017, Version 1.1

Congratulations!

Thanks for purchasing the G-4513-3GWA – 3G WCDMA Power Saving PAC with Solar Charger. This Quick Start Guide will provide related information which needed to get started with the G-4513-3GWA module. Please also consult the user manual for detailed information on the setup and usage of the G-4513-3GWA module.

What's In the Box!

In addition to this guide, the package includes the following items:

	 G-4513-3GWA	 CD	 ANT-421-02	 ANT-115-03	 CA-0910	 L-type	 screws
G-4513(D)-3GWA	X1	X1	X1	--	X1	X 2	X1
G4513P(PD)-3GWA	X1	X1	X1	X1	X1	X 2	X1

Technical Support

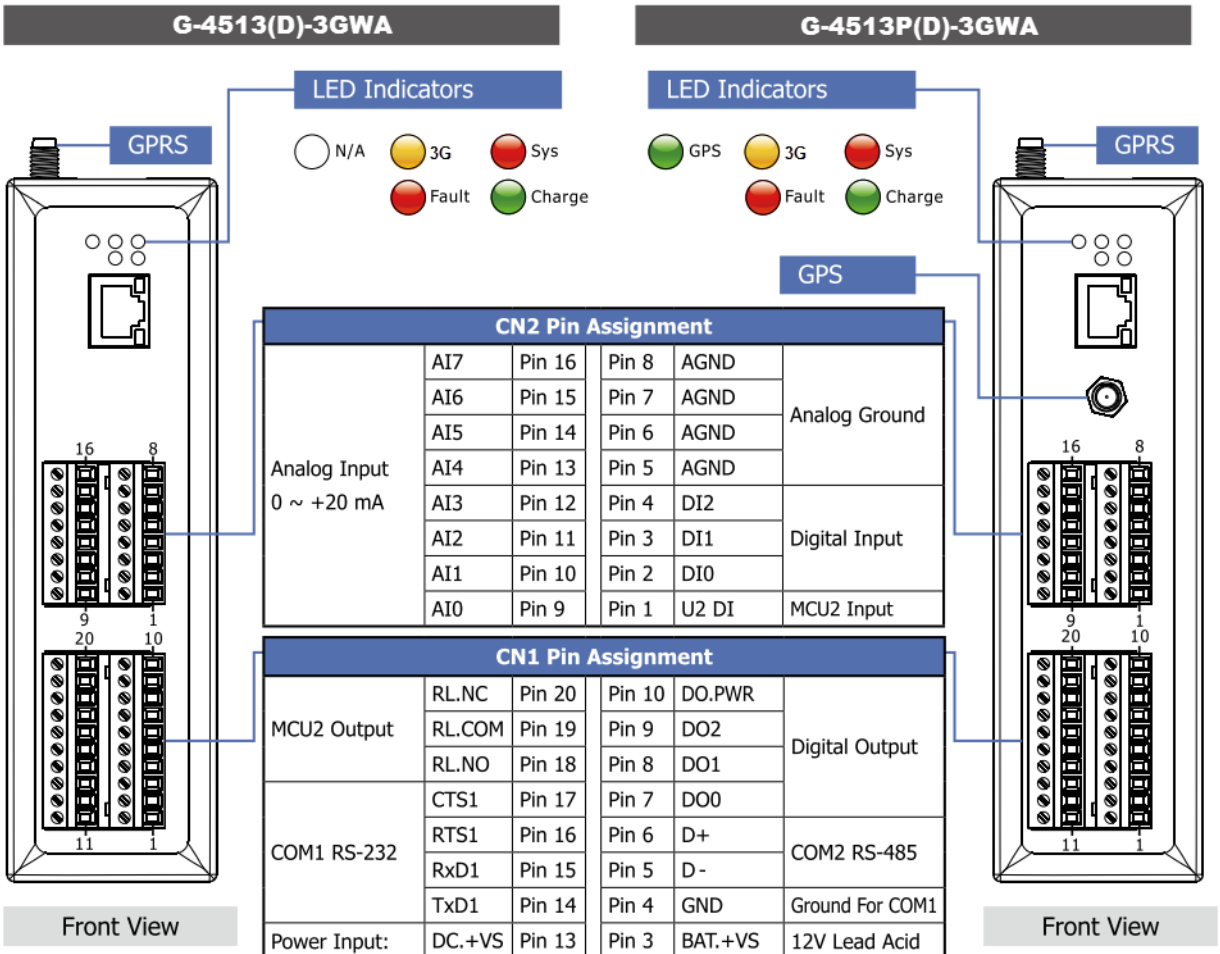
- **G-4513-3GWA User Manual**
  http://ftp.icpdas.com/pub/cd/usbcd/napdos/g-4513-3gwa/manual/
- **G-4513-3GWA Website**
  http://m2m.icpdas.com/g-4513-3gwa.html
- **MiniOS7 Utility**
  http://ftp.icpdas.com/pub/cd/8000cd/napdos/minios7/utility/minios7_utility/

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Copyright © 2017 ICP DAS Co., Ltd. All Rights Reserved. E-mail: service@icpdas.com

1. Hardware Installation

■ Pin Assignments



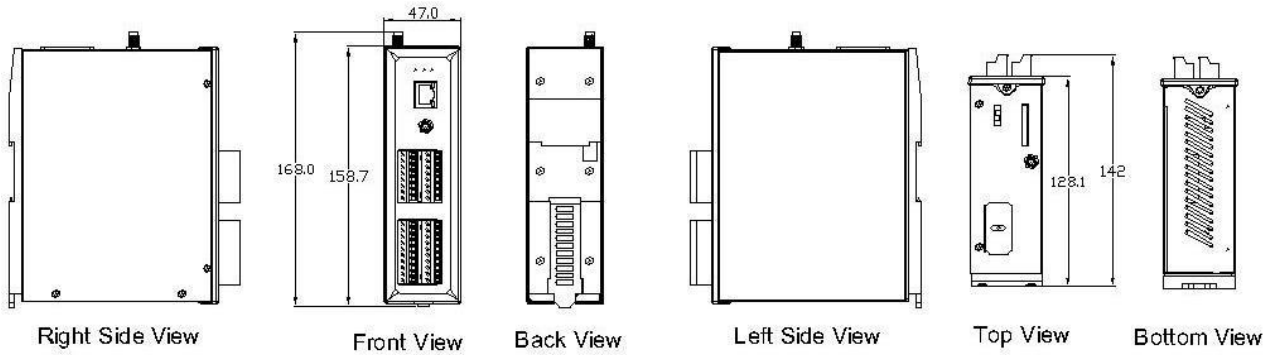
CN2 Pin Assignment

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

■ Dimensions



Unit : mm

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Copyright © 2017 ICP DAS Co., Ltd. All Rights Reserved. E-mail: service@icpdas.com

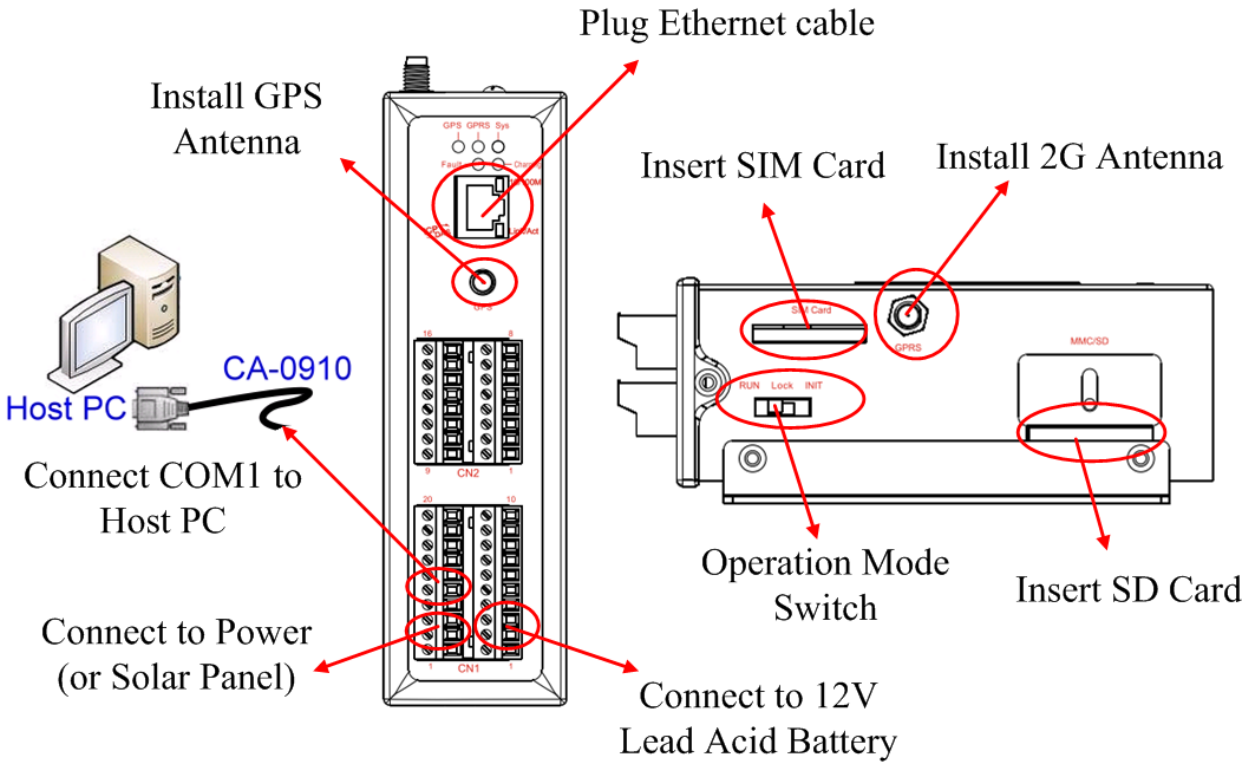
■ Installation

A. Install 2G/3G antenna.

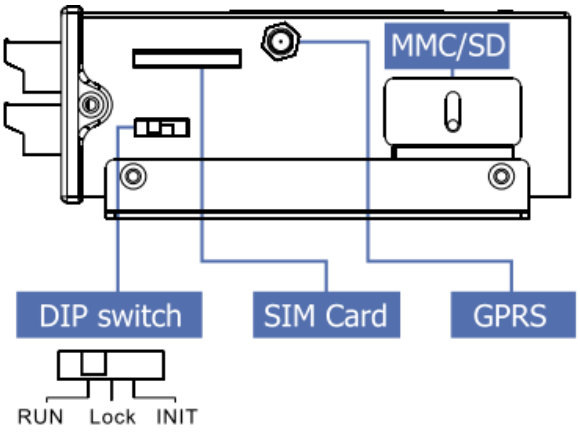
B. Plug in the normal SIM card (Before apply the SIM card, confirm it is OK by mobile phone.)

C. Connect the DC.+VS and DC.GND to the power supply or Solar Panel.

D. Connect BAT.+VS and BAT.GND to the 12V Lead Acid Battery.



■ Operation Mode Switch



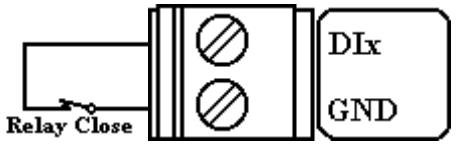
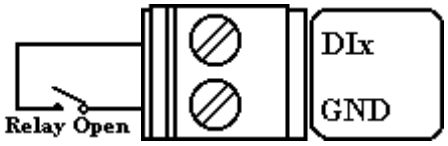
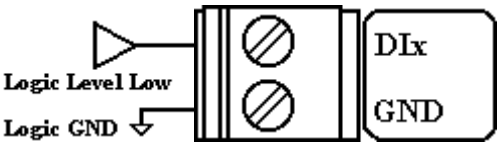
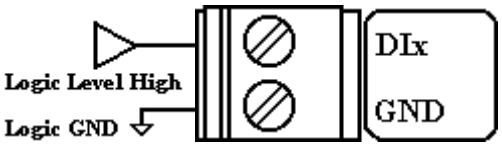
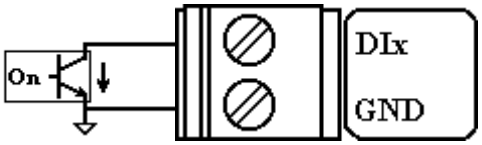
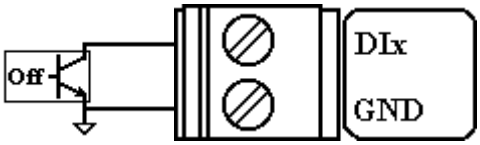
Operation Mode Switch	
RUN	OS can execute autoexec.bat
	Flash can be read/write.
LRun	OS can execute autoexec.bat
	Flash is read only (lock).
INIT	OS can not execute autoexec.bat
	Flash can be read/write.

Copyright © 2017 ICP DAS Co., Ltd. All Rights Reserved.
E-mail: service@icpdas.com

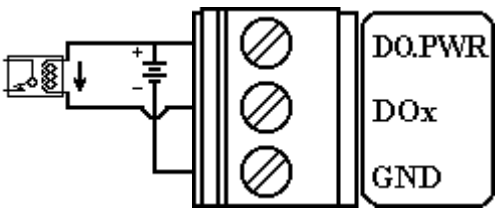
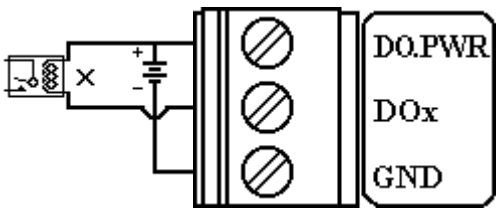
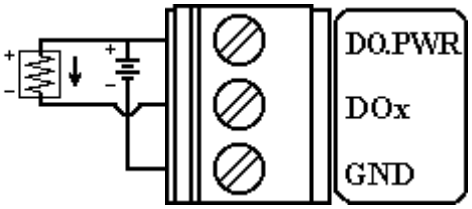
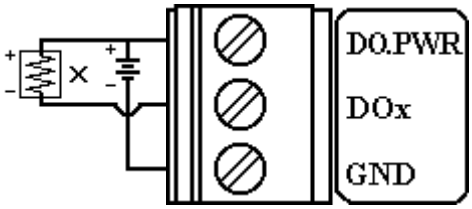
Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

■ Wire Connection

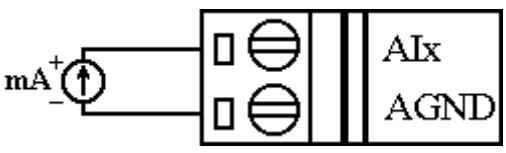
➢ Digital Input Wire Connection

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		

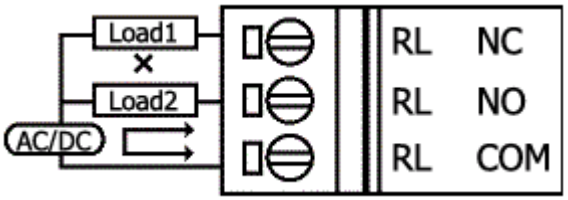
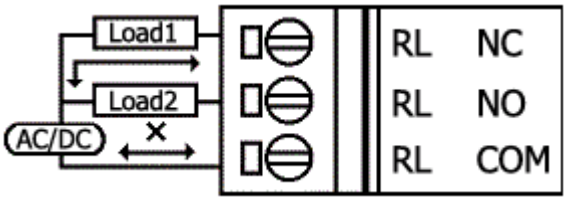
➢ Current Input Wire Connection

Input Type	
	

➢ Relay Wire Connection

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

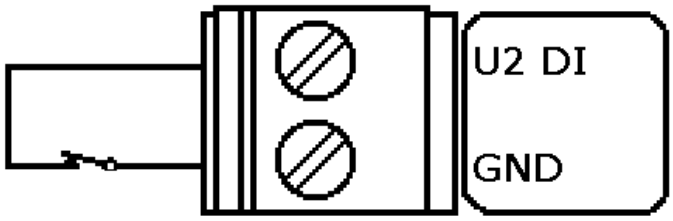
Copyright © 2017 ICP DAS Co., Ltd. All Rights Reserved. E-mail: service@icpdas.com

Relay Output ON	Relay Output OFF
	

■ Wake up from Sleep mode

A. When G-4513 was in sleep mode, you can connect the Pin “U2 DI” (MCU2 DI) to GND. to awaking G-4513 from sleep mode.

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



2 MiniOS7 Utility

■ Install MiniOS7 Utility

The installation software can be obtained from：

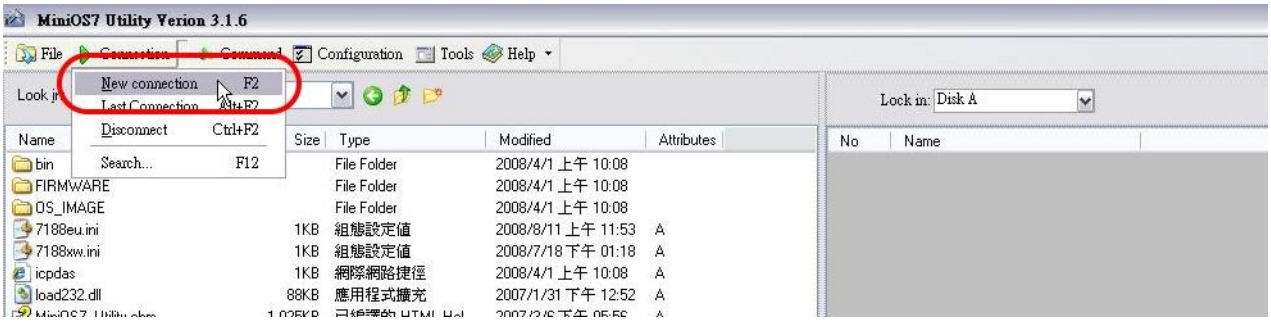
http://ftp.icpdas.com/pub/cd/8000cd/napdos/minios7/utility/minios7_utility/

■ Launch MiniOS7 Utility

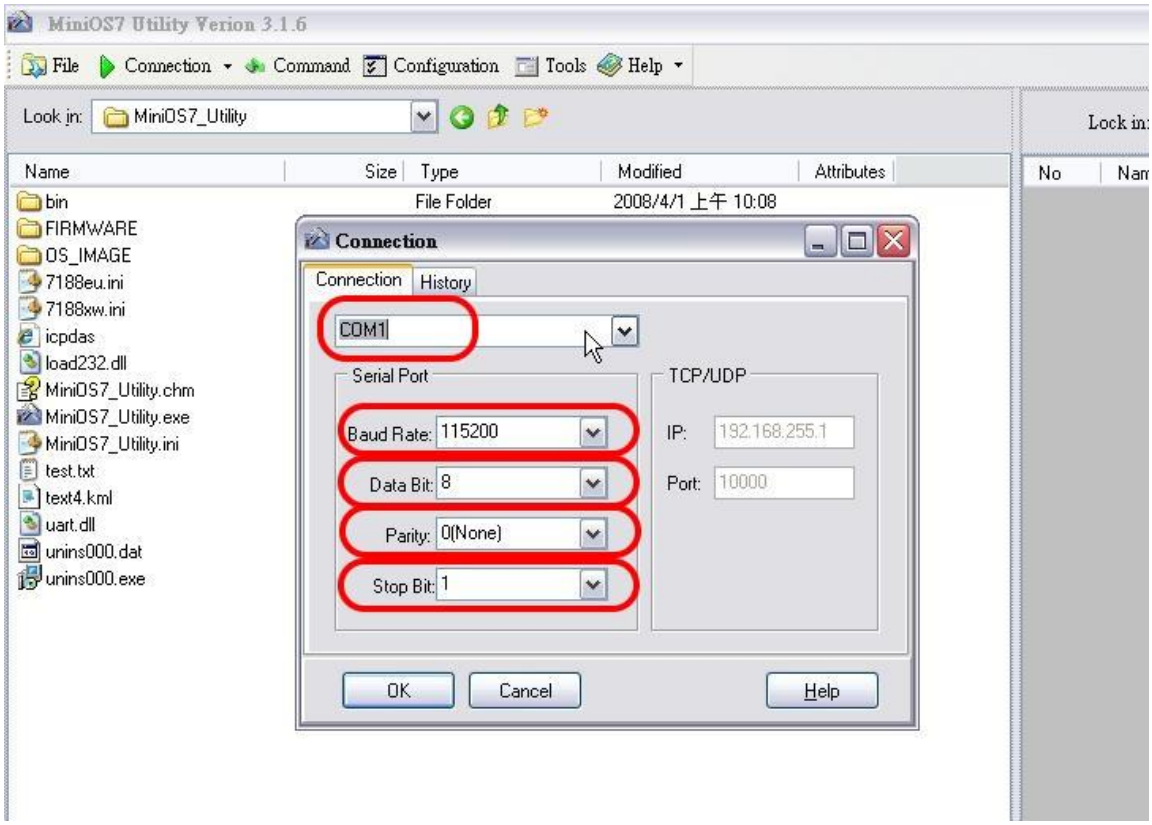


■ Select connect G-4513 to Host PC

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000



■ Setup the COM Port parameter



Tips & Warnings



G-4513 default COM Port parameter 115200, 8, N, 1

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Copyright © 2017 ICP DAS Co., Ltd. All Rights Reserved. E-mail: service@icpdas.com

■ Download Demo into the G-4513

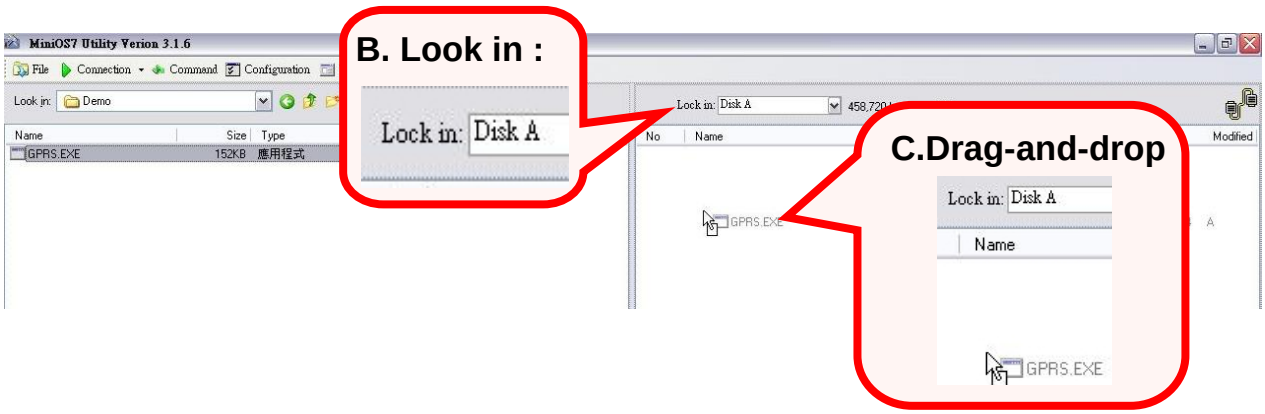
A. You can be obtained from the following location：

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

Http://ftp.icpdas.com/pub/cd/usbcd/napdos/G-4513/software/demo

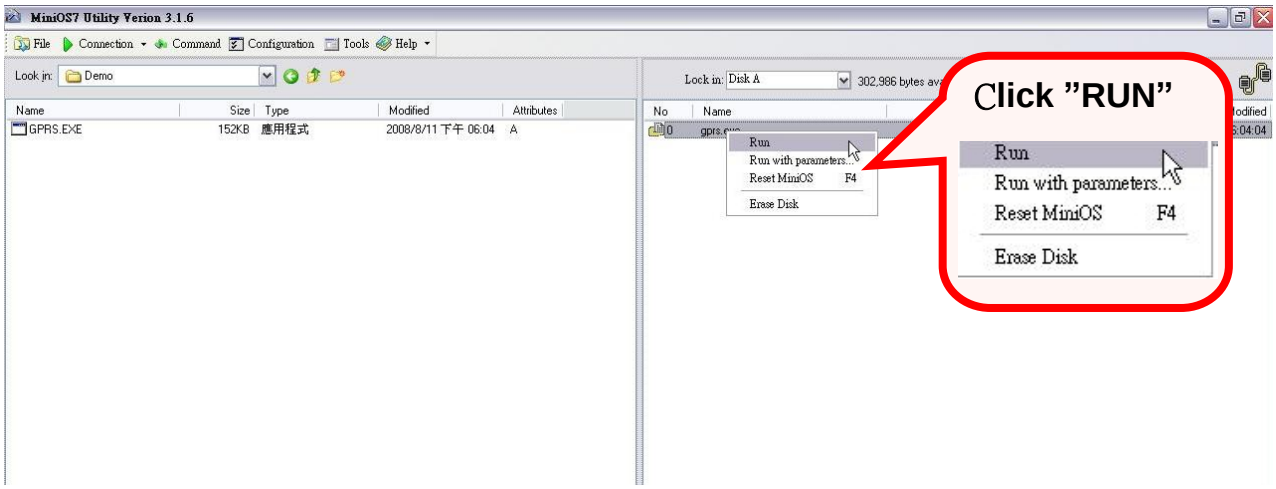
B. Click the “Look in” pull-down menu to the location of Demo.

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



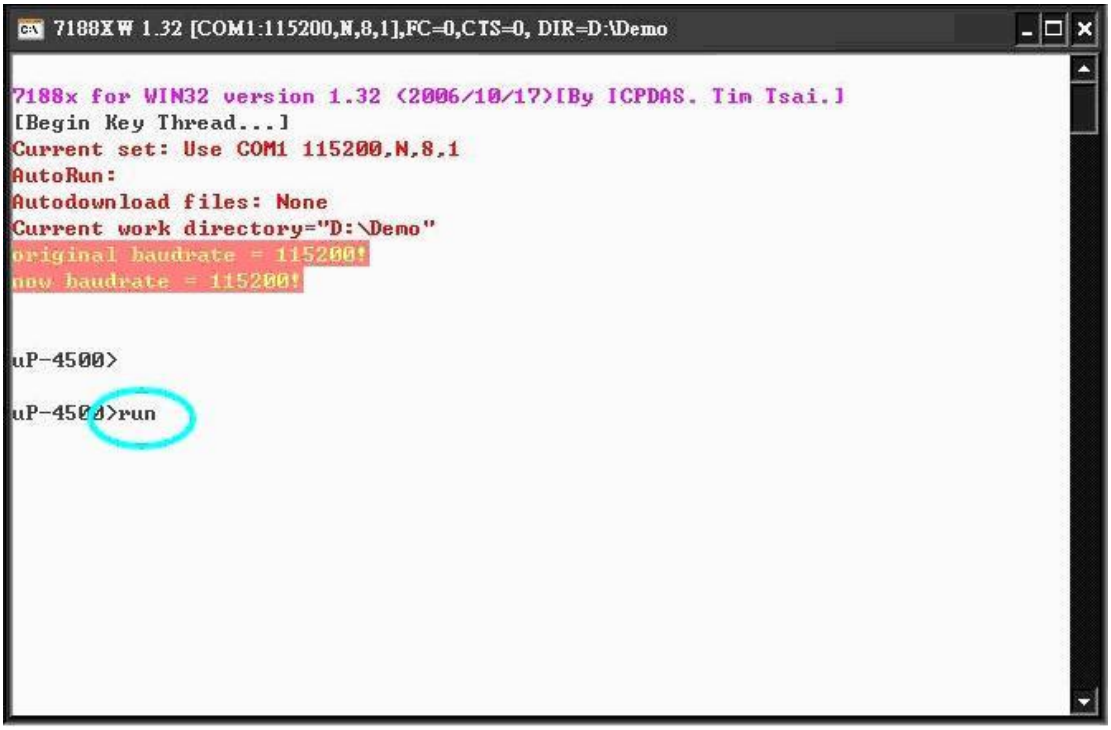
■ RUN the Demo

☞ **Step 1**：Click “Run”.



Copyright © 2017 ICP DAS Co., Ltd. All Rights Reserved.

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



Copyright © 2017 ICP DAS Co., Ltd. All Rights Reserved.