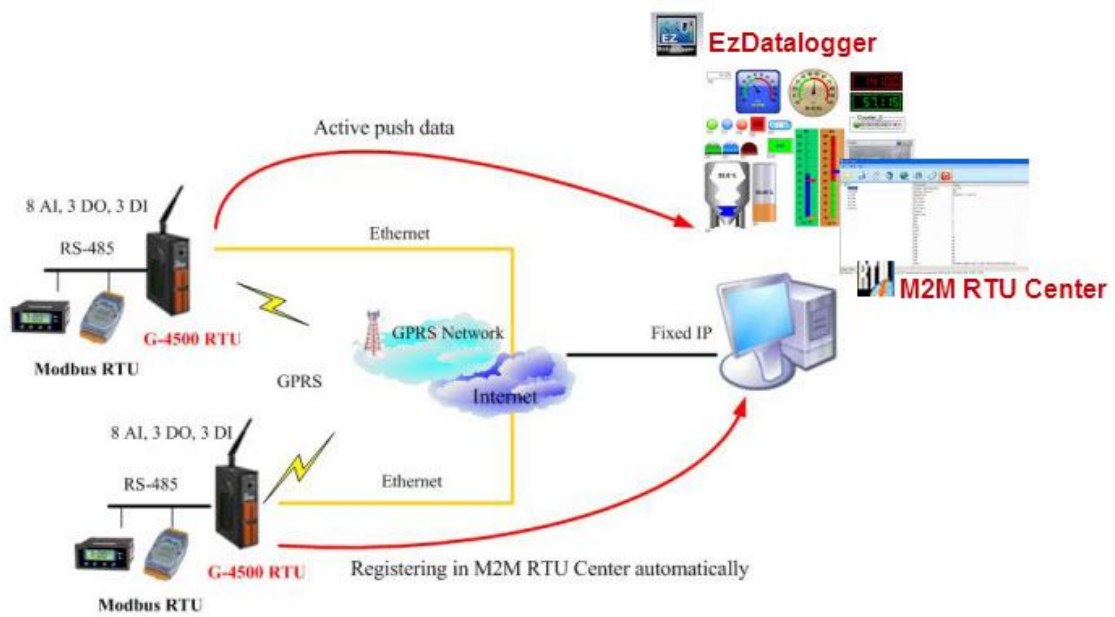


# Quick Start

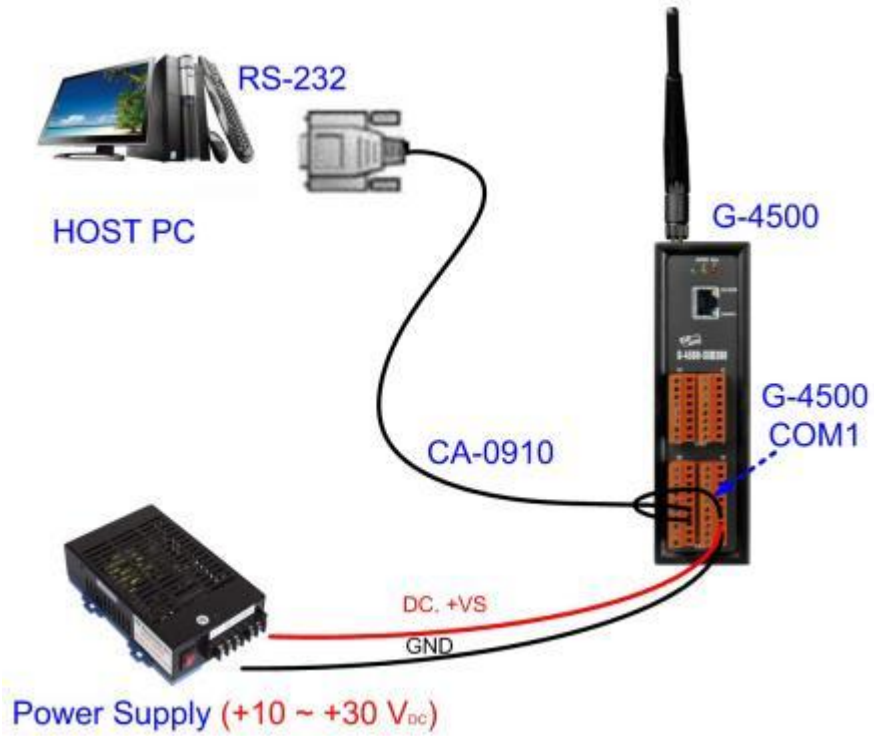
## EZ Data Logger connect to G-4500

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1. Upload the latest firmware to G-4500

**Step1.** Hardware connection: use the COM Port of Host PC connects to G-4500 with cable CA-0910. Please refer to the picture below.



**Step2.** Turn the dip switch to INIT mode and restart the G-4500 power



**Step3.** Download the below software

- ✓ Download the MiniOS7 Utility software (Ver3.2.4)

[http://ftp.icpdas.com/pub/cd/8000cd/napdos/minios7/utility/minios7\\_utility/](http://ftp.icpdas.com/pub/cd/8000cd/napdos/minios7/utility/minios7_utility/)

- ✓ MiniOS7 Utility document

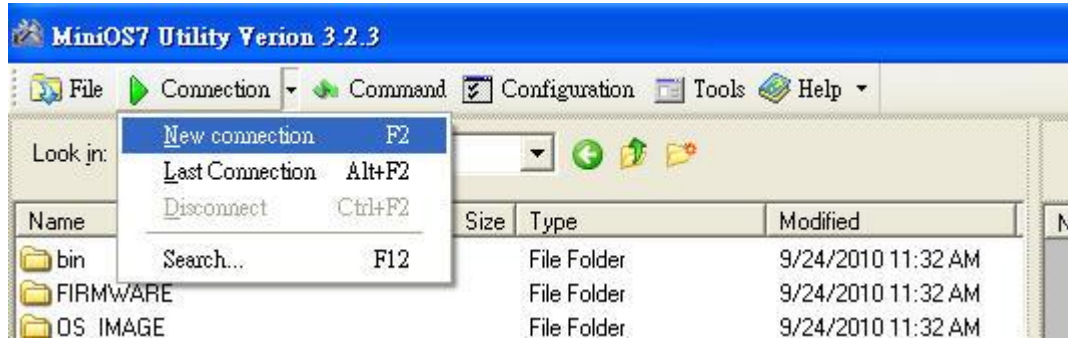
[http://ftp.icpdas.com/pub/cd/8000cd/napdos/minios7/utility/minios7\\_utility/minios7\\_utility.pdf](http://ftp.icpdas.com/pub/cd/8000cd/napdos/minios7/utility/minios7_utility/minios7_utility.pdf)

- ✓ G-4500 RTU firmware

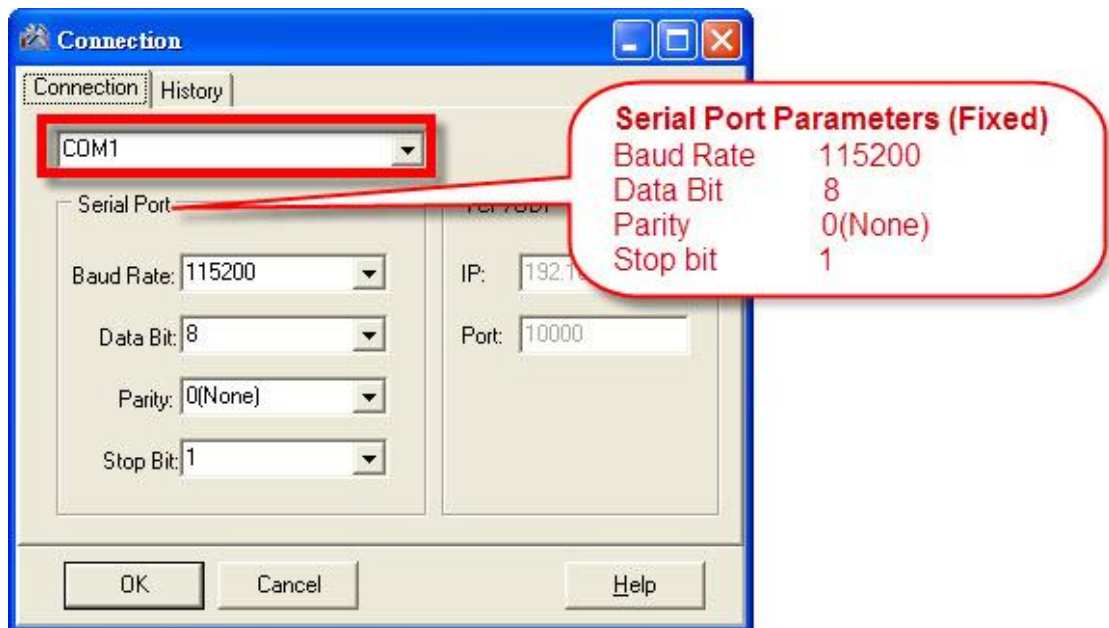
[http://ftp.icpdas.com/pub/cd/usbcd/napdos/m2m/rtu/g-4500\\_rtu/software/firmware/](http://ftp.icpdas.com/pub/cd/usbcd/napdos/m2m/rtu/g-4500_rtu/software/firmware/)

**Step4.** Upload the firmware to G-4500 via COM Port

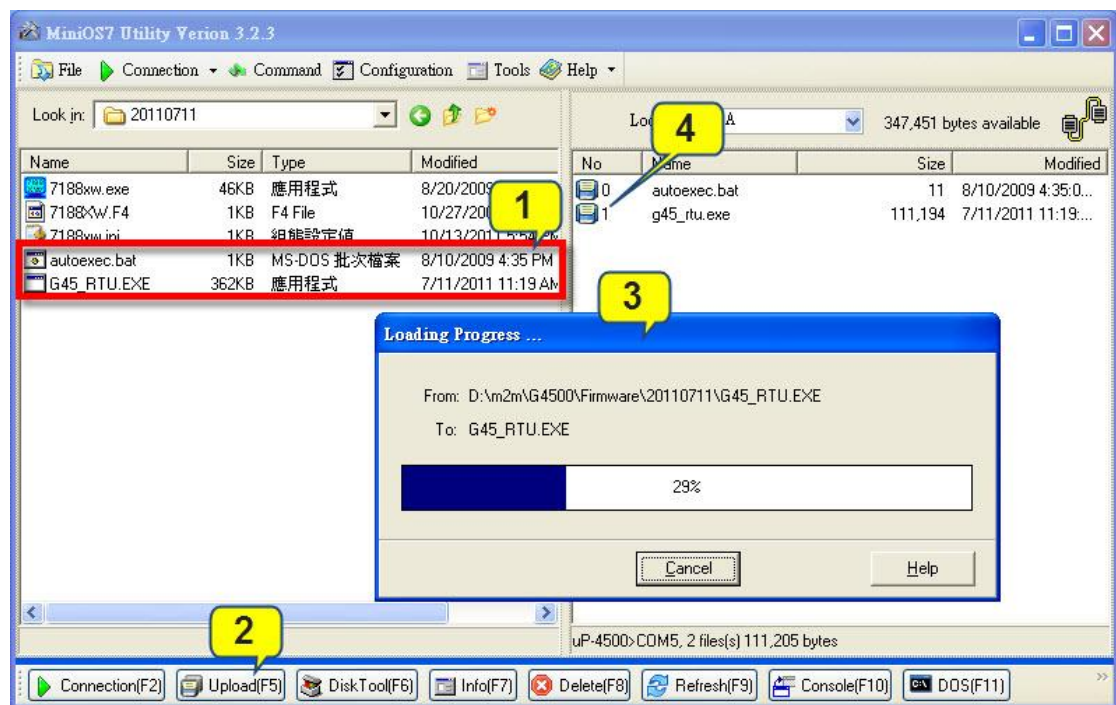
- (1) Choose MenuBar > Connection, and then click new connection.



- (2) Select your number of COM Port.



- (3) Select the G45\_RTU.exe and autoexec.bat, and then click the “Upload” Button to upload the firmware.



- (4) Turn the dip switch to RUN mode and restart the G-4500 power after upload the firmware successfully.




## 2. Set your G-4500 by G-4500\_RTU\_UTILITY

**Step1.** Download the Setup.exe (Ver1.06)

[http://ftp.icpdas.com/pub/cd/usbcd/napdos/m2m/rtu/g-4500\\_rtu/software/utility/](http://ftp.icpdas.com/pub/cd/usbcd/napdos/m2m/rtu/g-4500_rtu/software/utility/)

**Step2.** Installing G-4500 RTU Utility

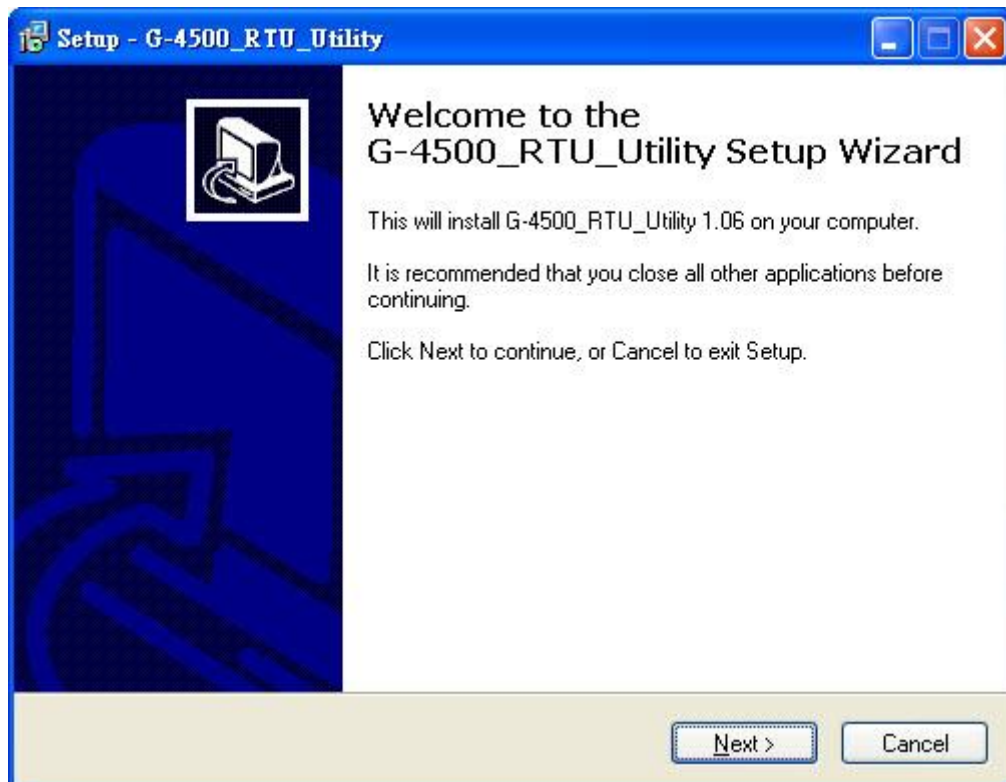
 **Note:**

It needs the runtime environment with .NET Framework 2.0 or above to execute the G-4500 RTU Utility in the PC.

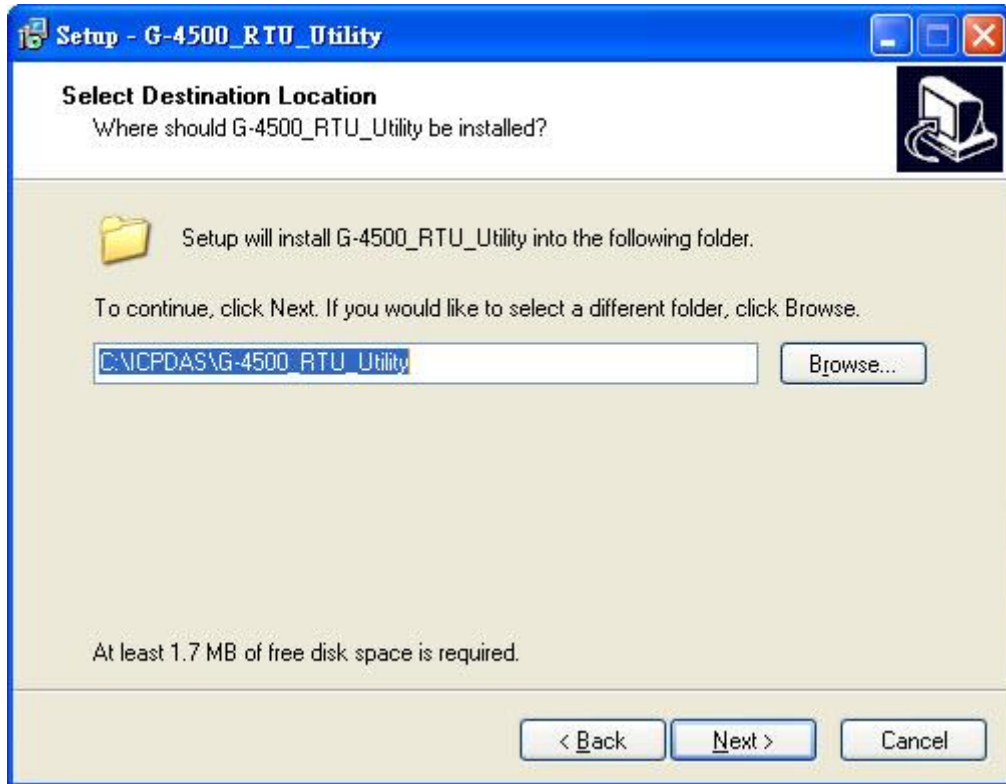
- ★ Microsoft .Net Framework Version 2.0:  
<http://www.microsoft.com/downloads/details.aspx?FamilyID=0856eacb-4362-4b0d-8edd-aab15c5e04f5&DisplayLang=en>
- ★ Microsoft .Net Framework Version 3.5:  
<http://www.microsoft.com/downloads/details.aspx?familyid=333325FD-AE52-4E35-B531-508D977D32A6&displaylang=en>

(1) Execute Setup.exe

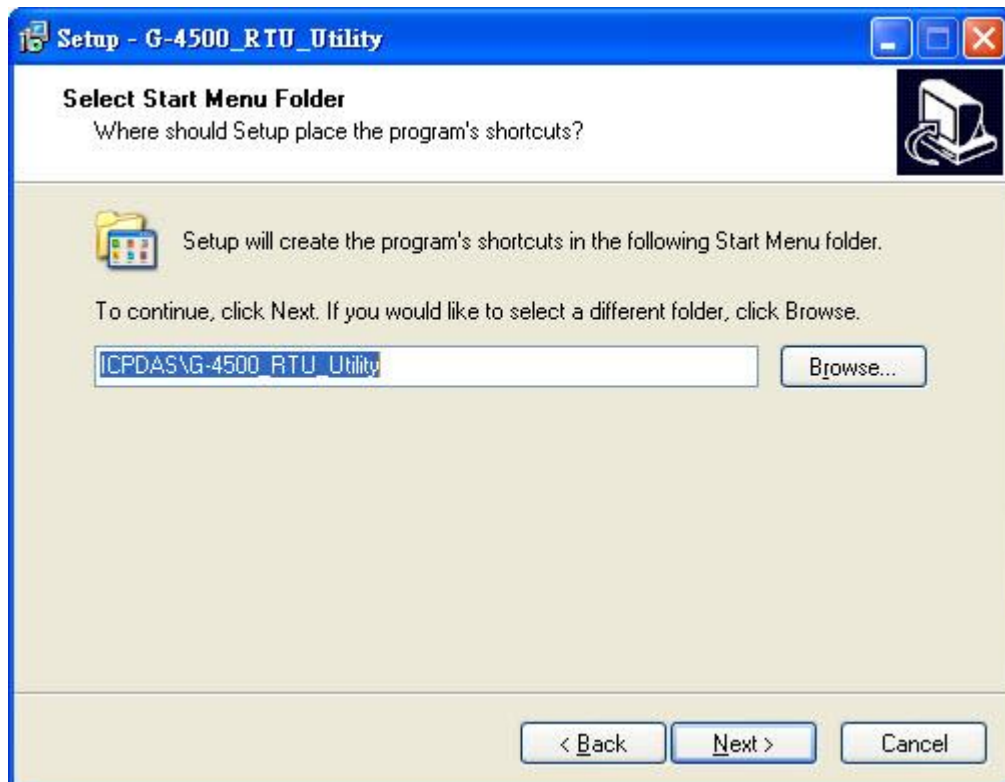
(2) Press "Next" to start the installation procedure.



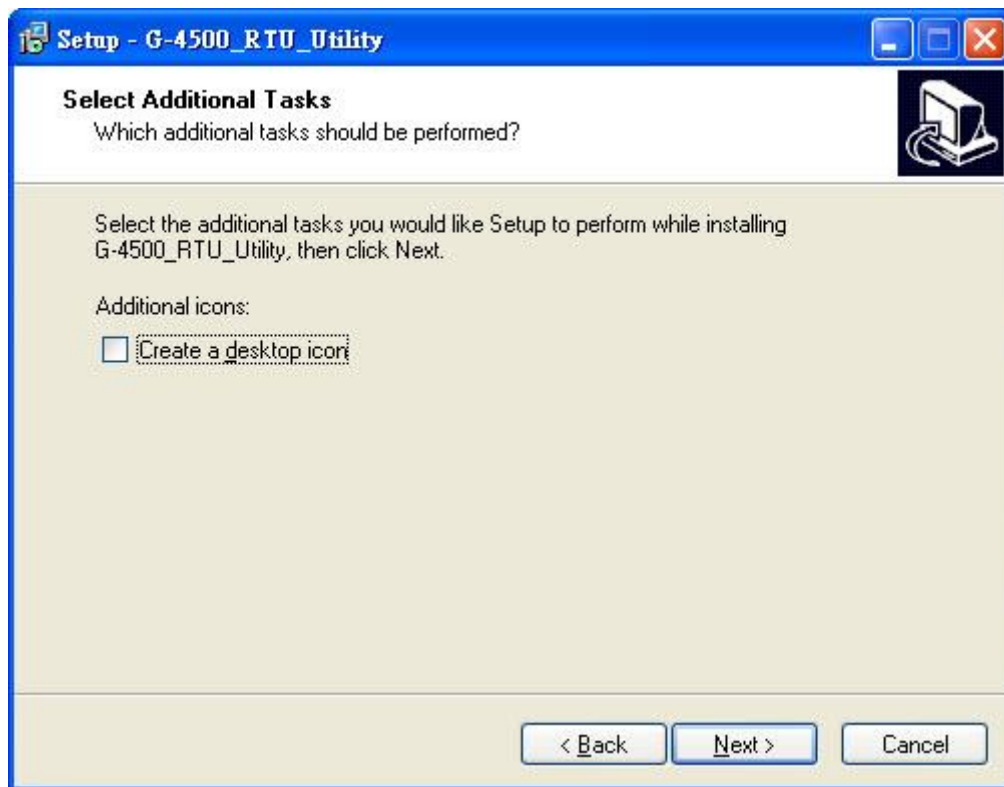
- (3) Select the installation path. The default path is "C:\ICPDAS\G-4500\_RTU\_UTILITY". Press "Next" to the next step.



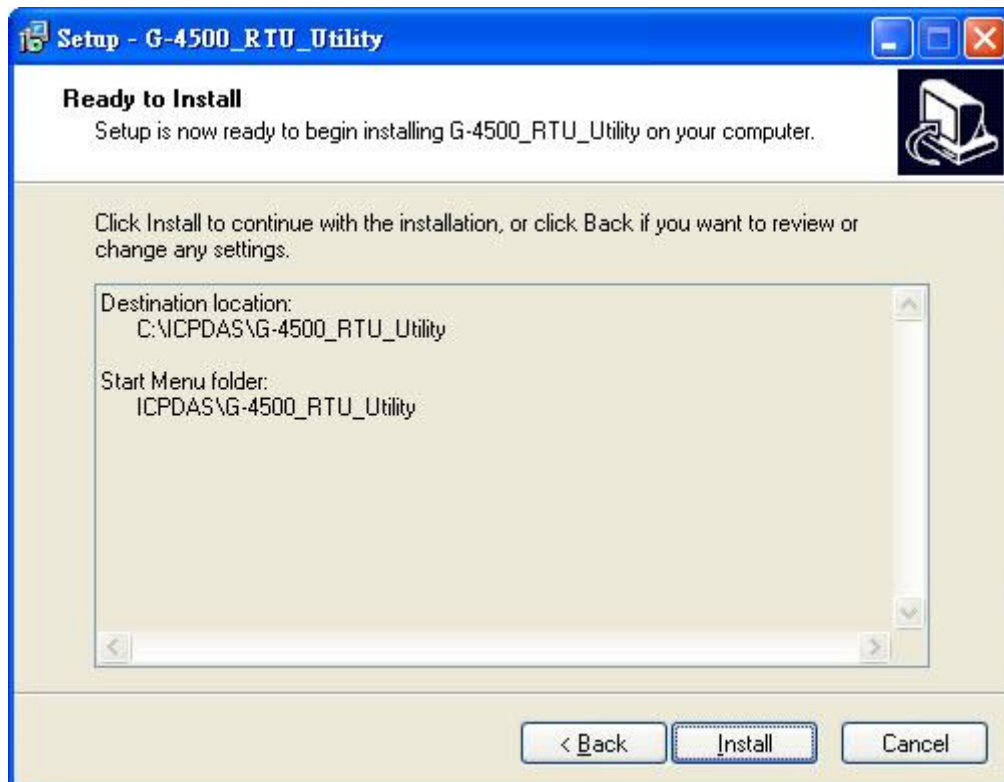
- (4) Select the start menu folder path. The default path is "ICPDAS\G-4500\_RTU\_UTILITY". Press "Next" to the next step.



(5) Press “Next” to the next step.



(6) Press “Install” to the next step.



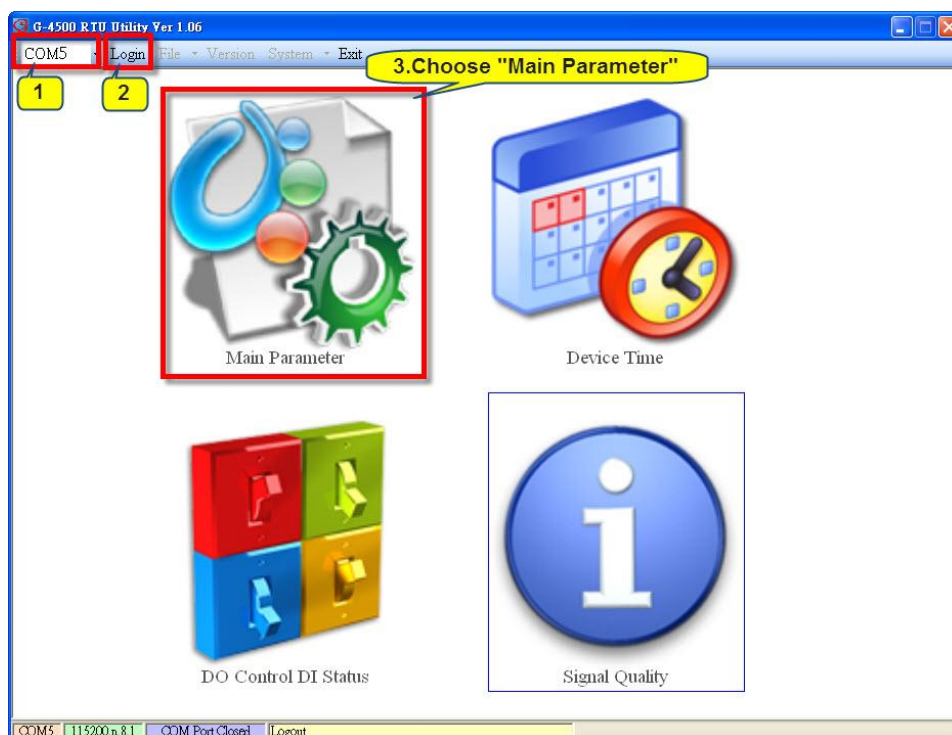
(7) Press "Finish" to finish the installation procedure.



**Step3.** Launch G-4500\_RTU\_UTILITY from the start menu "Start→All Programs→ICPDAS→G-4500\_RTU\_UTILITY→G-4500\_RTU\_UTILITY".

**Step4.** It needs to login into G-4500 RTU to set its parameters.

- (1) Select the COM port number of PC.
- (2) Press the "login" button.
- (3) Choose "Main Parameter".





**Step5.** Set the main parameter.

- (1) Station ID: The device Station ID would be shown in the remote server. (Range: 1 ~ 65535)
- (2) Connect Method: 4 methods are supported for G-4500 RTU to connect to remote server.
- (3) Remote Server: Connect to assignable remote server. It can be remote server's IP or remote server's Domain name.
- (4) Remote Server Port: Connect to assignable remote server port.
- (5) Local Ethernet IP: Local Ethernet IP of the G-4500
- (6) Local Ethernet Mask: Local Ethernet Mask of the G-4500
- (7) Local Ethernet Gateway: Local Ethernet Gateway of the G-4500

Parameter	Value	Message
Station ID	1	1 ~ 65535
Update Time	5	1 ~ 999999, Unit: sec
Heartbeat Time	1000	1 ~ 3600, 0: Disable, Unit: sec
Connect Method	1	0: Only GPRS, 1: Only Ethernet..
Enable GPS	0	1: Enable, 0: Disable, it will retur...
GPRS Username	GUEST	GPRS Username
GPRS Password	GUEST	
GPRS APN	INTERNET	
DNS Server	168.95.1.1	
Remote Server	10.0.0.180	Please fill in your Remote's IP o...
Remote Server Port	10000	Default: 10000
Modbus BaudRate	115200	2400 ~ 115200 bps
Modbus Parity	0	0: None, 1: Even, 2: Odd
Modbus DataBit	8	DataBit: 7/8
Modbus StopBit	1	Stop Bit: 1/2/3/4/5/6/7/8
Modbus Time Out	500	
Local Ethernet IP	10.0.0.49	Local Ethernet IP
Local Ethernet Mask	255.255.255.0	Local Ethernet Mask
Local Ethernet Gateway	10.0.0.254	Local Ethernet Gateway
Enable LCD	1	0: Disable, 1: Enable, it will sho...
Enable SD	0	0: Disable, 1: Enable, it will recor...
Interval Time of Modbus command	0	0 ~ 1000, Unit: ms. 0: Use syst...

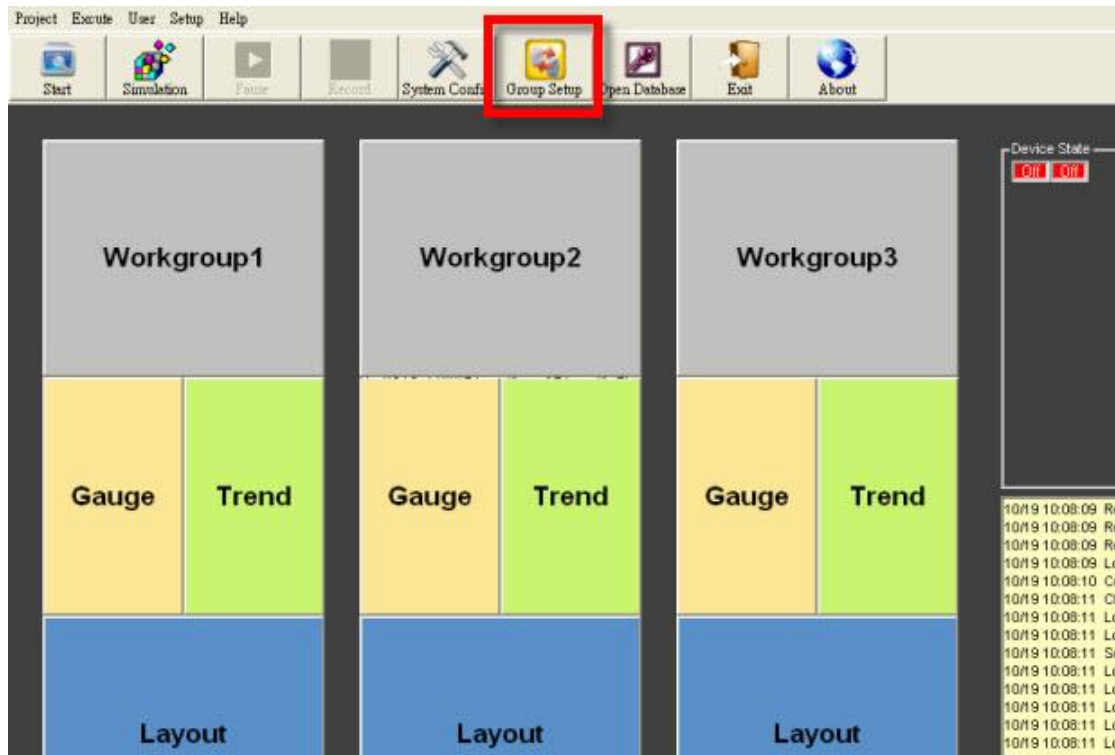
Type remote server's IP, and the port is 10000.

You can set the G-4500's IP.

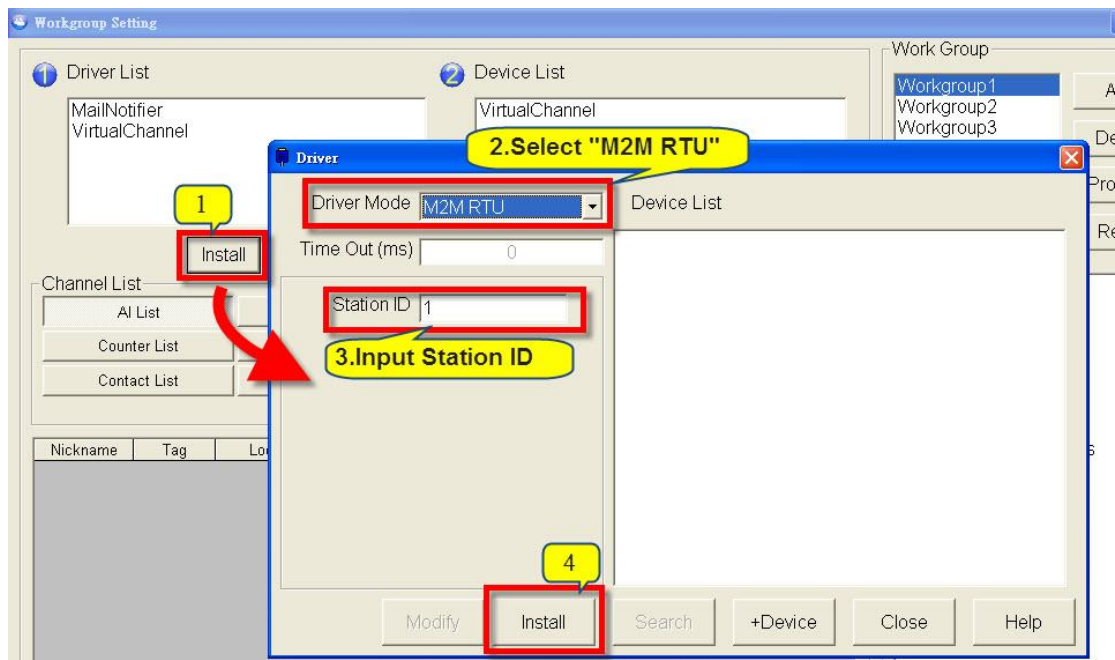
**Step6.** Press "Write to Device" to save these settings to G-4500 RTU.

### 3. Set G-4500 local I/O connection in EZ Data Logger

**Step1.** Open “EZ Data Logger” → click “Group Setup”.

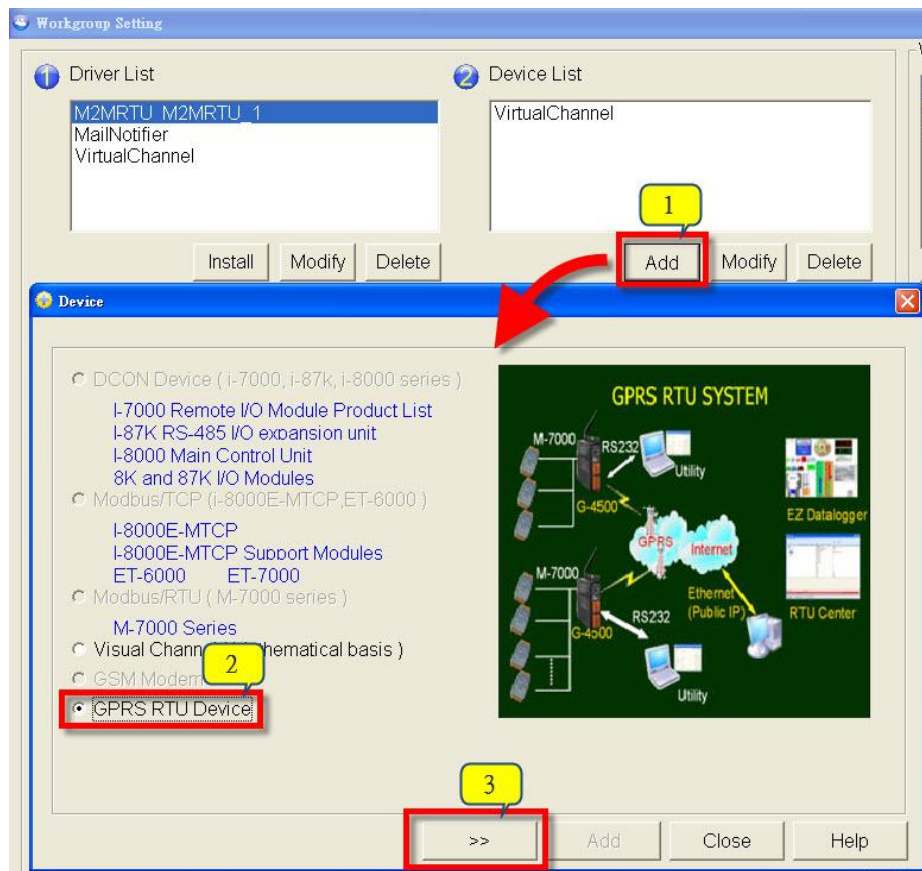


**Step2.** Install “M2M RTU” driver.

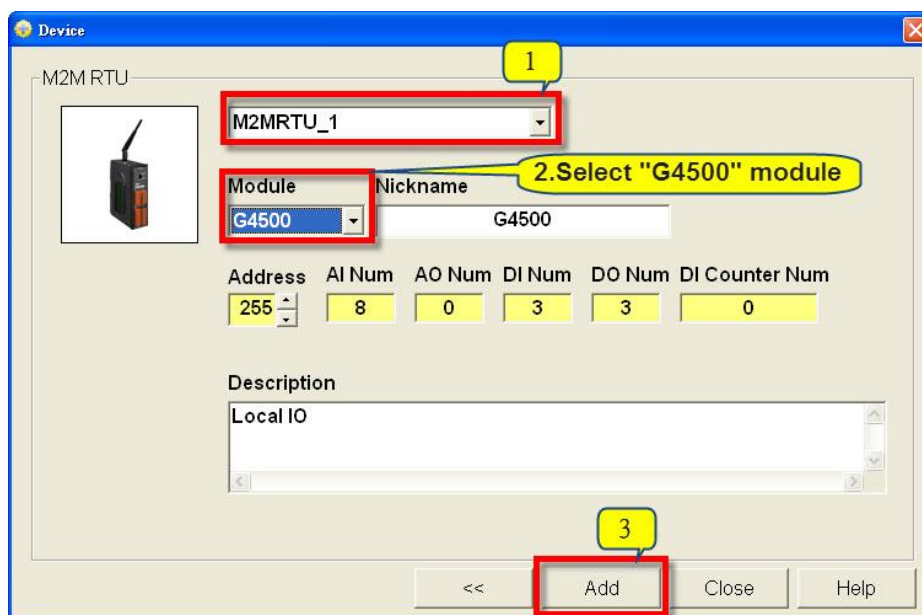


**Step3.** Add a new device.

**Step3.1.** Click “Add” button under Device List → choose “GPRS RTU Device” → click “>>” to next step.



**Step3.2.** Select “M2MRTU\_1” driver → select “G4500” module for filling I/O channels automatically → click “Add” button to add the device.



**Step4.** All the channels can be added to the specified group.

Drag to select channels with left mouse button → click “Add” to add I/O channels to specified group

The screenshot shows a software interface titled "Channel List". At the top, there are several tabs: "AI List" (selected), "AO List", "DI List", "DO List", "Counter List", "Freq List", "Virtual Channel", "Control Logic", "Contact List", and "Web Camera". Below the tabs is a table with the following columns: Nickname, Tag, Location, Gain, Offset, Hight Alarm, Low Alarm, Description, and Hig. The table contains 8 rows of data for AI channels (AI\_0 to AI\_7). A yellow callout box with the number "1" points to the table. At the bottom right, there is a "Mod" button and an "Add>>" button, both highlighted with red boxes. A yellow callout box with the number "2" points to the "Add>>" button. A blue callout box with the number "3" points to a small icon next to the "Add>>" button.

Nickname	Tag	Location	Gain	Offset	Hight Alarm	Low Alarm	Description	Hig
G4500_AI_0	G4500_AI_0	G4500 Ch0	1	0	100	-10	G4500_AI_0	
G4500_AI_1	G4500_AI_1	G4500 Ch1	1	0	100	-10	G4500_AI_1	
G4500_AI_2	G4500_AI_2	G4500 Ch2	1	0	100	-10	G4500_AI_2	
G4500_AI_3	G4500_AI_3	G4500 Ch3	1	0	100	-10	G4500_AI_3	
G4500_AI_4	G4500_AI_4	G4500 Ch4	1	0	100	-10	G4500_AI_4	
G4500_AI_5	G4500_AI_5	G4500 Ch5	1	0	100	-10	G4500_AI_5	
G4500_AI_6	G4500_AI_6	G4500 Ch6	1	0	100	-10	G4500_AI_6	
G4500_AI_7	G4500_AI_7	G4500 Ch7	1	0	100	-10	G4500_AI_7	

**Step5.** After all setting done, click “Home” button to back to the main screen.

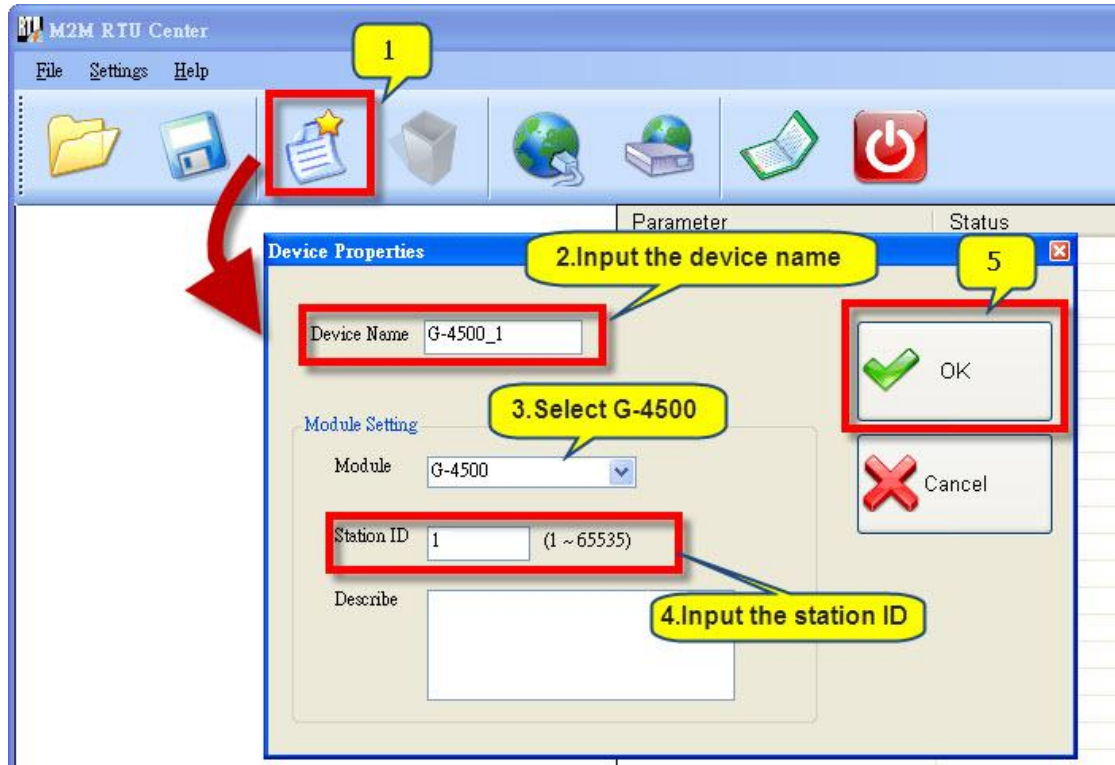
The screenshot shows a tree view of channels. The "AI Channels" folder is expanded, showing a list of channels: G4500\_AI\_0, G4500\_AI\_1, G4500\_AI\_2, and G4500\_AI\_3. Other folders visible include "AO Channels", "DI Channels", "DO Channels" (expanded to show G4500\_DO\_0, G4500\_DO\_1, G4500\_DO\_2), "Counter Channels", "Freq Channels", "Virtual Channels", and "Webcam Browsers". At the bottom of the interface, there is a "Home" button with a house icon, highlighted with a red box. A blue callout box with the number "4" points to the "Home" button.

**Step6.** Open RTU\_Center.

If you have installed the “M2M RTU” driver in the project, then every time when the EZ Data Logger main screen loads, the “RTU\_Center” application will automatically execute, and you can bring it back from the system tray by double click the RTU\_Center icon.

※ RTU\_Center software manages the connection from M2M RTU devices.

**Step7.** Set the Connection from G-4500 by RTU\_Center.



**Step8.** Make sure that the connection from G4500 is successful.

Before executing EZ Data Logger, you should check the connection status by RTU\_Center.(Green means success, and red means fail.)



## Step9. Execute EZ Data Logger

The screenshot displays the EZ Data Logger Basic Edition V4.4.1 interface. The main window is titled "Workgroup1" and contains several panels: "Gauge" (yellow), "Trend" (green), and "Layout" (blue). A red box highlights the "Stop" button in the top toolbar, with a yellow callout "1" pointing to it. Another red box highlights the "Layout" button in the main panel, with a yellow callout "2. Click 'Layout'" pointing to it. A red arrow points from the "Layout" button to a floating window titled "Workgroup1 Ver 4.4.1". This window displays a table of data points and three red "Off" buttons. A yellow callout "3. Monitor the G-4500 local I/O" points to the floating window.

1

2. Click "Layout"

3. Monitor the G-4500 local I/O

Workgroup1 Ver 4.4.1

Picture	Reset Position	Font Color	<<	>>	Gauge	Trend	Hide
G4500_AI_0	49.000	6.000			6.000		5.000
G4500_AI_1							
G4500_AI_2							
G4500_AI_3							

G4500\_DO\_2 Off G4500\_DO\_0 Off G4500\_DO\_1 Off Home

Device State: Off Off On

35:14 Mess  
ne:10/19/2011  
35:15 Scani