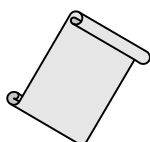


Packing List

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



EIP-2000



Quick Start



Screw Driver



CN-1824
EIP-2019/S Only

Technical Support

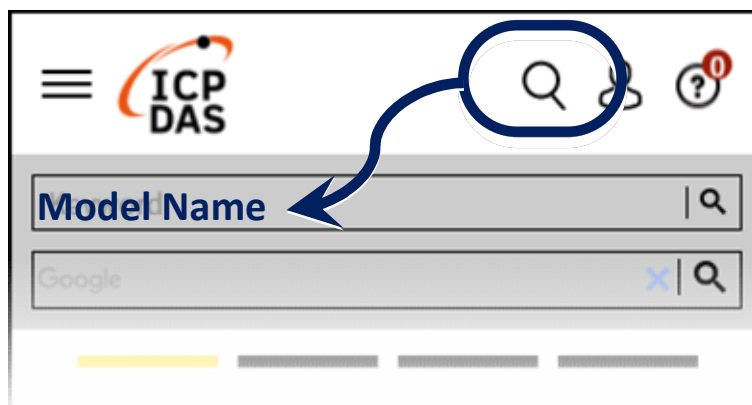
service@icpdas.com

www.icpdas.com

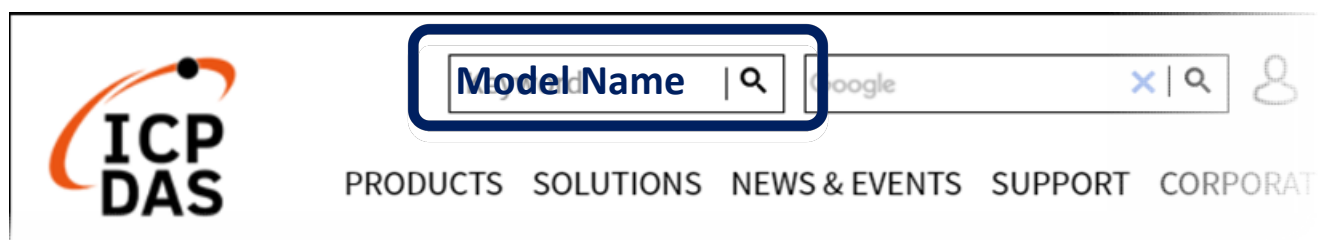
Resources

How to search for drivers, manuals and spec information on ICP DAS website.

- For Mobile Web



- For Desktop Web



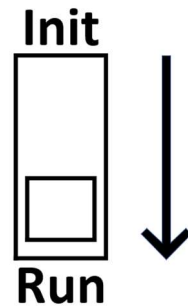
Installing Software on your PC

Install EIP-2000 Utility:

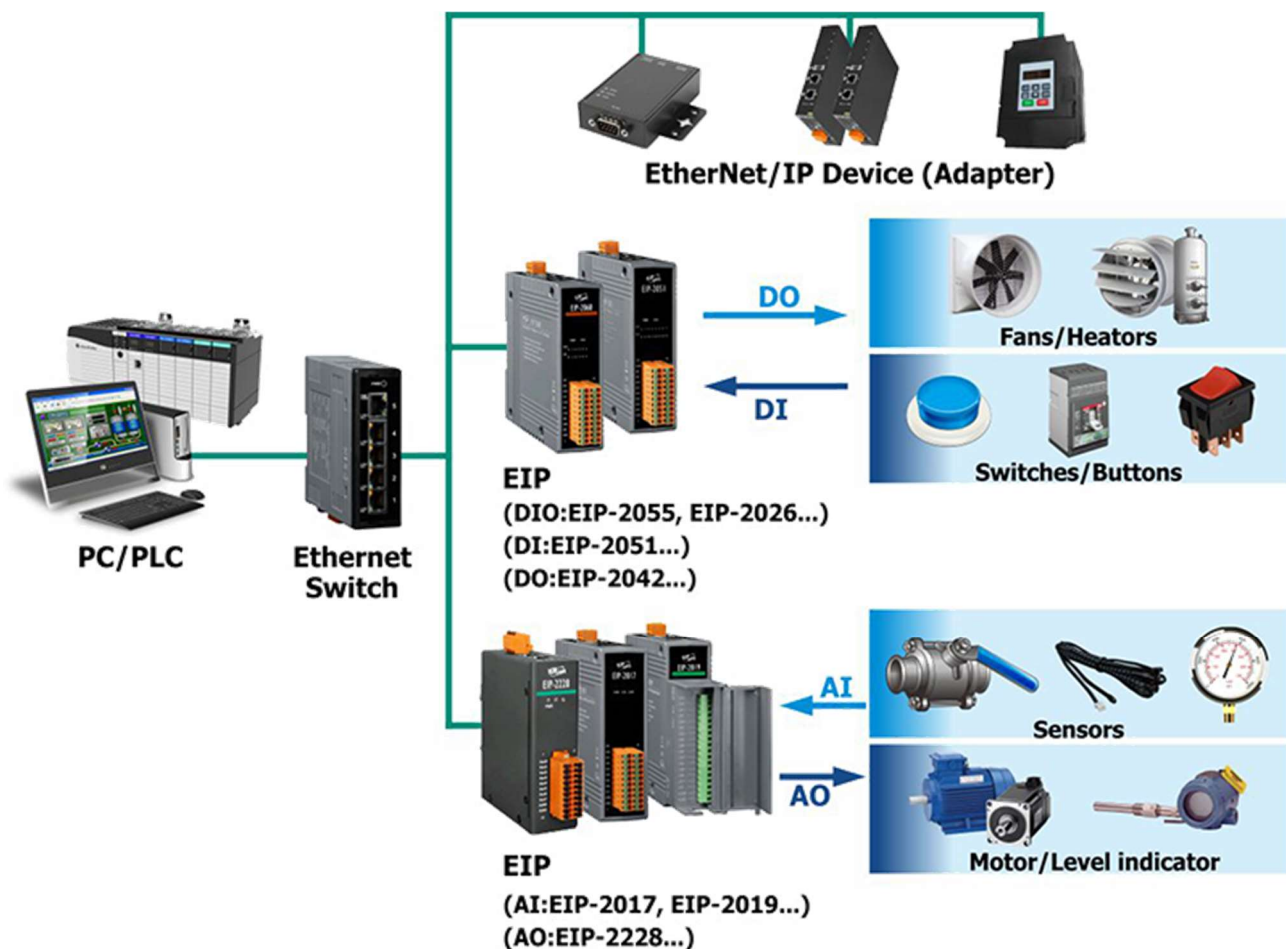
<http://www.icpdas.com/en/download/show.php?num=3080>

Connecting the Power and PC

1. Make sure your PC has workable network settings.
2. Disable or well configure your Windows firewall and anti-virus firewall first, else the “Network Scan” may not work. (Please contact with your system Administrator)
3. Check Init/Run DIP switch if it is on Run position.



4. Connect both the EIP-2000 and your computer to the same sub network or the same Ethernet switch, and power the EIP-2000 on.



5. Please download the datasheet from the ICPDAS website for more pin-assignment and wire-connection details. The LED indicator table is shown in the following table.

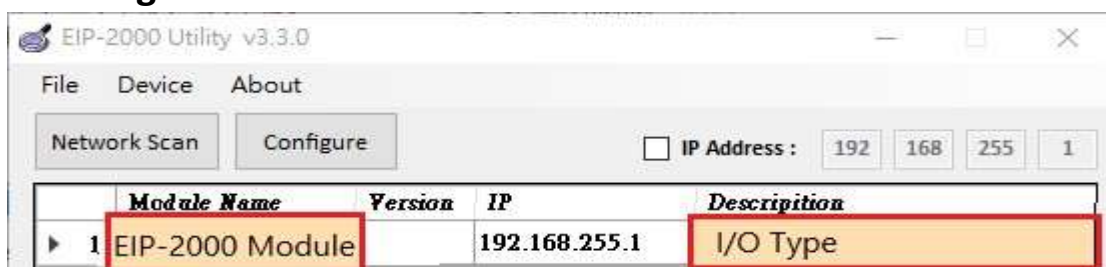
LED Indicator		
LED	LED Status	Description
Power LED	Always On	Module is in Run mode.
	Flashing	Module is in Init mode.
Status LED	Always On	EtherNet/IP connection is failed.
	Blink per second	EtherNet/IP connection is successful.
	Blink per 300 ms	EtherNet/IP disconnected during communication but still in Safe-Delay time.
	Blink per 100 ms	Module is about to reboot.
I/O status LED	On	The DI/DO is activated.
	Off	The DI/DO is inactivated.

EIP-2000 Utility

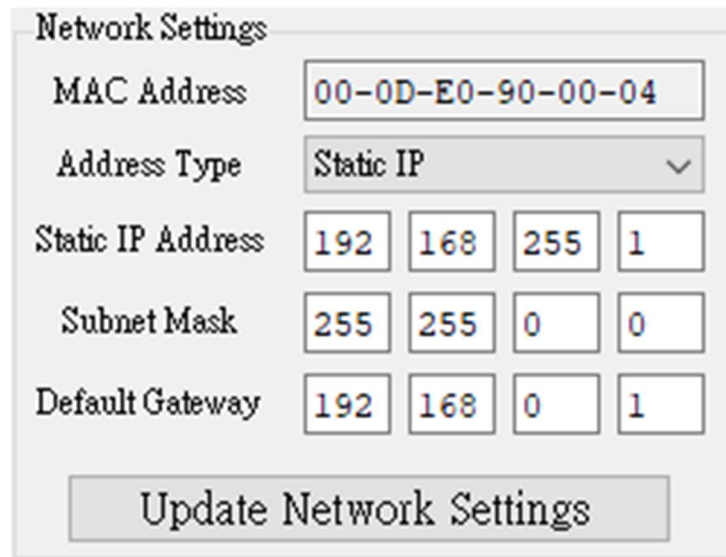
1. Double click the EIP-2000 Utility shortcut on the desktop.
2. The factory default IP address of the EIP-2000 modules.

Network Settings	
Item	Settings (default)
IP	192.168.255.1
Gateway	192.168.0.1
Mask	255.255.0.0

3. Click the “**Network Scan**” button to search your EIP-2000 modules. Or check “**IP Address**” to enter the IP address of the module, and then click the “**Configure**” button.



4. Users can edit the “Network Settings” for changing the modules’s IP address. And click the **“Update Network Settings”** button to update the configuration and reboot the module.

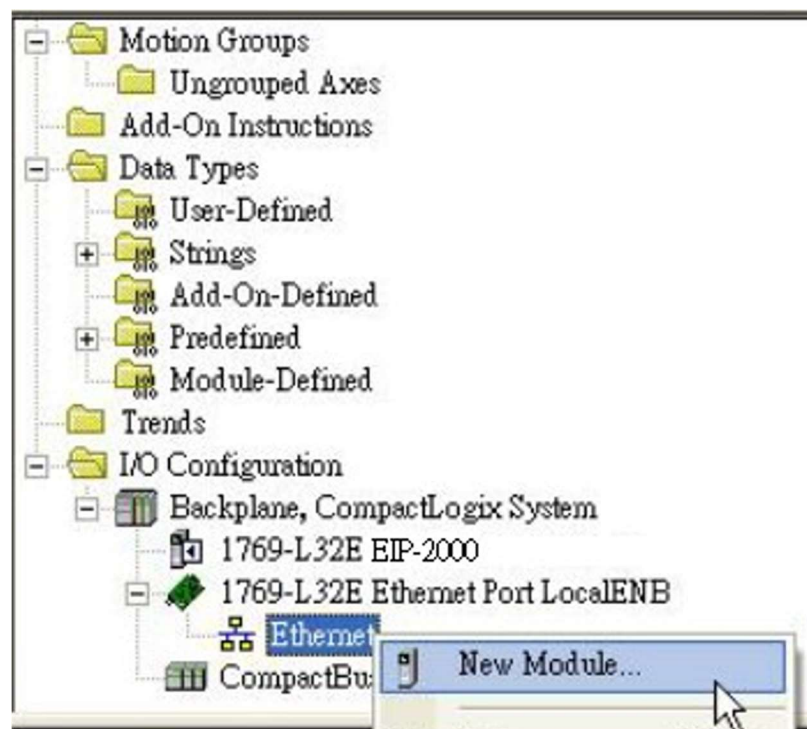


The image shows a 'Network Settings' dialog box. It contains the following fields and controls:

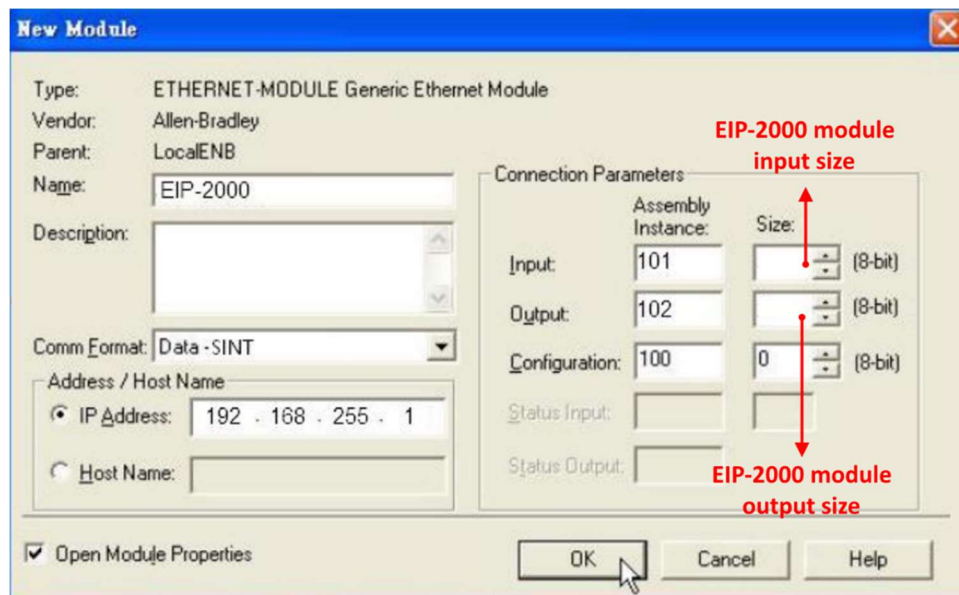
- MAC Address:** A text box containing '00-0D-E0-90-00-04'.
- Address Type:** A dropdown menu currently set to 'Static IP'.
- Static IP Address:** Four separate input boxes for the IP octets: '192', '168', '255', and '1'.
- Subnet Mask:** Four separate input boxes for the subnet mask octets: '255', '255', '0', and '0'.
- Default Gateway:** Four separate input boxes for the default gateway octets: '192', '168', '0', and '1'.
- Update Network Settings:** A large button at the bottom of the dialog.

How to connect with Allen-Bradley PLC?

1. Open RSLogix 5000 (AB PLC tool) and create a new project, and create a new module in the “Ethernet” item.



- Set the parameters of the new module. The input assembly instain is 101, the output assembly instance is 102 and the configuration assembly instance is 100.



Please find the IO size from the following tables, and the configuration size is always 0.

- EIP-2017 data size

Data Assembly	Byte count	Description
Input Assembly	53	1 st ~ 16 th Byte: AI status (AI0 ~ AI7) for DIFF. or S.E. mode.
		17 th ~ 32 nd Byte: AI status (AI8 ~ AI15) for S.E. mode only.
		33 rd ~ 40 th Byte: AI Type Code (AI0 ~ AI7) for DIFF. or S.E. mode.
		41 st ~ 48 th Byte: AI Type Code (AI0 ~ AI7) for S.E. mode only.
		49 th Byte: AI filters status.
		50 th Byte: Channel mode status.
		51 st Byte: AI representation.
		52 nd Byte: Channel selection (AI0 ~ AI7).
		53 rd Byte: Channel selection (AI8 ~ AI15).
Output Assembly	22	1 st Byte: Set value to the module.
		2 nd ~ 17 th Byte: Set type code to AI0 ~ AI15.

		18 th Byte: Filter selections of AI
		19 th Byte: Channel mode selection DIFF. or S.E.
		20 th Byte: AI representations
		21 st Byte: AI channel selection (AI0 ~ AI7)
		22 nd Byte: AI channel selection (AI8 ~ AI15)

● EIP-2019 data size

Data Assembly	Byte count	Description
Input Assembly	41	1 st ~ 16 th Byte: AI status(AI0 ~ AI7).
		17 th ~ 18 th Byte: The broken wire status.
		19 th ~ 20 th Byte: CJC status.
		21 st ~ 28 th Byte: AI type code(AI0 ~ AI7).
		29 th Byte: AI filter status.
		30 th Byte: AI representation.
		31 st Byte: Wire break detector.
		32 nd Byte: CJC switch.
		33 rd Byte: CJC increment.
		34 th ~ 41 st Byte: CJC offset(AI0 ~ AI7).
Output Assembly	23	1 st Byte: Set value to the module.
		2 nd ~ 9 th Byte: Set type code to Ch0 ~ Ch7.
		10 th Byte: Filter selection of AI
		11 st Byte: Wire break detector
		12 nd Byte: AI representation
		13 rd Byte: Select AI channel to be short
		14 th Byte: CJC switch
		15 th Byte: CJC increment
		16 th ~ 23 rd Byte: CJC Offset

● EIP-2042 data size

Data Assembly	Byte count	Description
Input Assembly	2	1 st Byte: DO status read back (DO0 ~ DO7).
		2 nd Byte: DO status read back (DO8 ~ DO15).
Output Assembly	2	1 st Byte: DO status (DO0 ~ DO7).
		2 nd Byte: DO status (DO8 ~ DO15).

● EIP-2051 data size

Data Assembly	Byte count	Description
Input Assembly	66	1 st Byte: DI status(DI0 ~ DI7).
		2 nd Byte: DI status(DI8 ~ DI15).
		3 rd ~ 65 th Byte: DI counters.
Output Assembly	2	1 st Byte: to set DI counters zero (DI0 ~ DI7).
		2 nd Byte: to set DI counters zero (DI8 ~ DI15).

● EIP-2055 data size

Data Assembly	Byte count	Description
Input Assembly	34	1 st Byte: DI status.
		2 nd Byte: DO status read back
		3 rd ~ 34 th Byte: DI counters.
Output Assembly	2	1 st Byte: DO status.
		2 nd Byte: to set DI counters zero.

● EIP-2060 data size

Data Assembly	Byte count	Description
Input Assembly	26	1 st Byte: DI status.
		2 nd Byte: DO status read back
		3 rd ~ 26 th Byte: DI counters.
Output Assembly	2	1 st Byte: DO status.
		2 nd Byte: to set DI counters zero.

The Instance ID of the EIP-2000 module.

Implicit Message Information of EIP-2000		
Instance	Instance ID	Data length
Input(T->O)	65hex (101)	Depends on modules.
Output(O->T)	66hex (102)	Depends on modules.
Configuration	64hex (100)	