EIP-2000 Quick Start

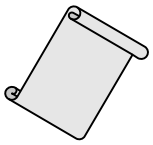
V1.0, February 2023

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

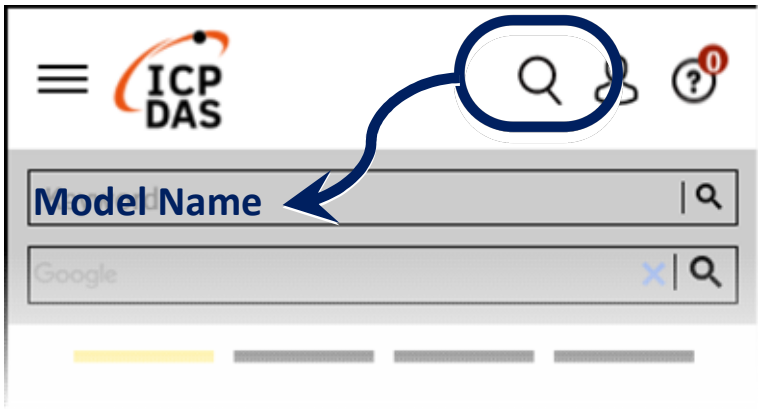
service@icpdas.com

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

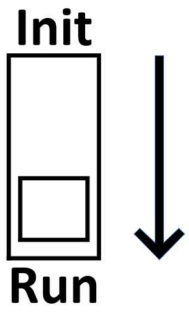
Install EIP-2000 Utility:

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

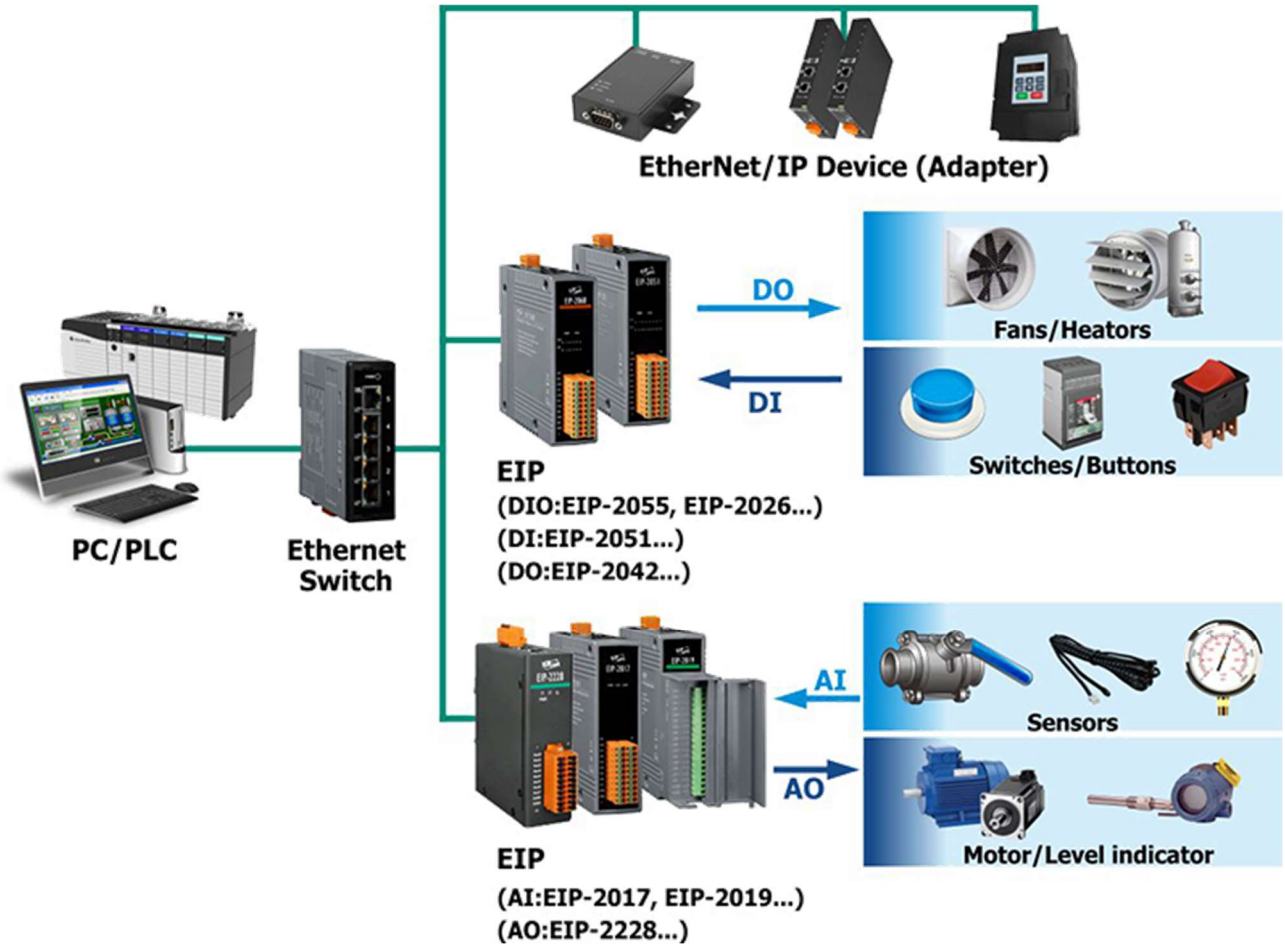
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Connecting the Power and PC

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.



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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.

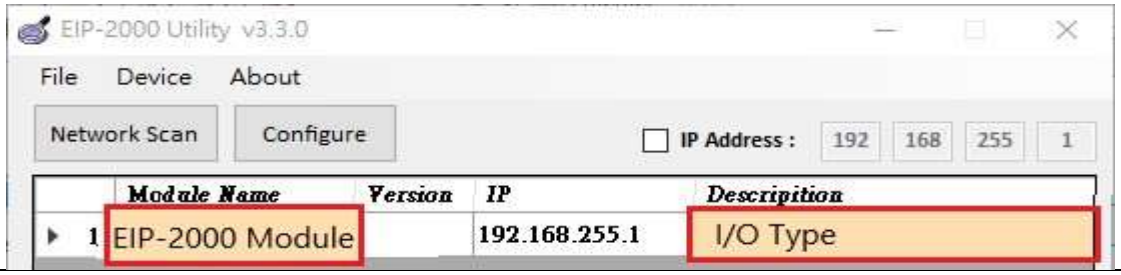
LED Indicator		
LED	**LED Status**	**Description**
Power LED	Always On	Module is in Run mode.
	Flashing	Module is in Init mode.
Status LED	Always On	EtherNet/IP connection is failed.
	Blink per second	EtherNet/IP connection is successful.
	Blink per 300 ms	EtherNet/IP disconnected during communication 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.

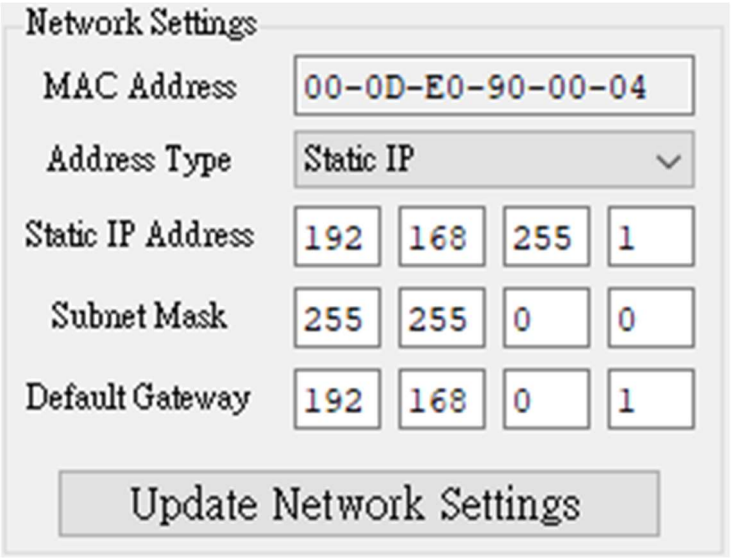
Network Settings	
Item	**Settings (default)**
IP	192.168.255.1
Gateway	192.168.0.1
Mask	255.255.0.0

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.



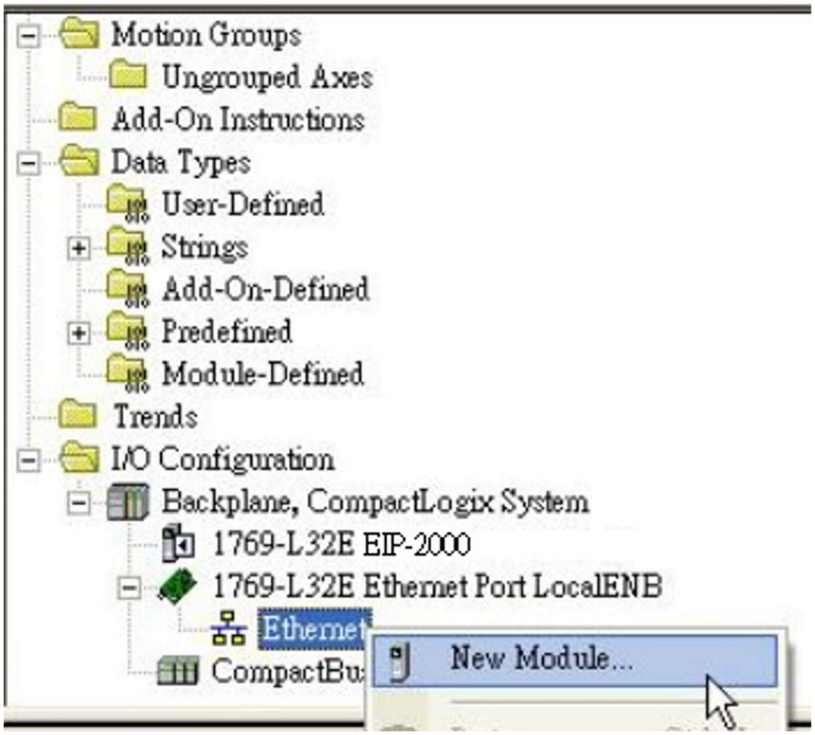
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4. Users can edit the “Network Settings” for changing the modules’s IP address. And click the **“Update Network Settings”** button to update the configuration and reboot the module.



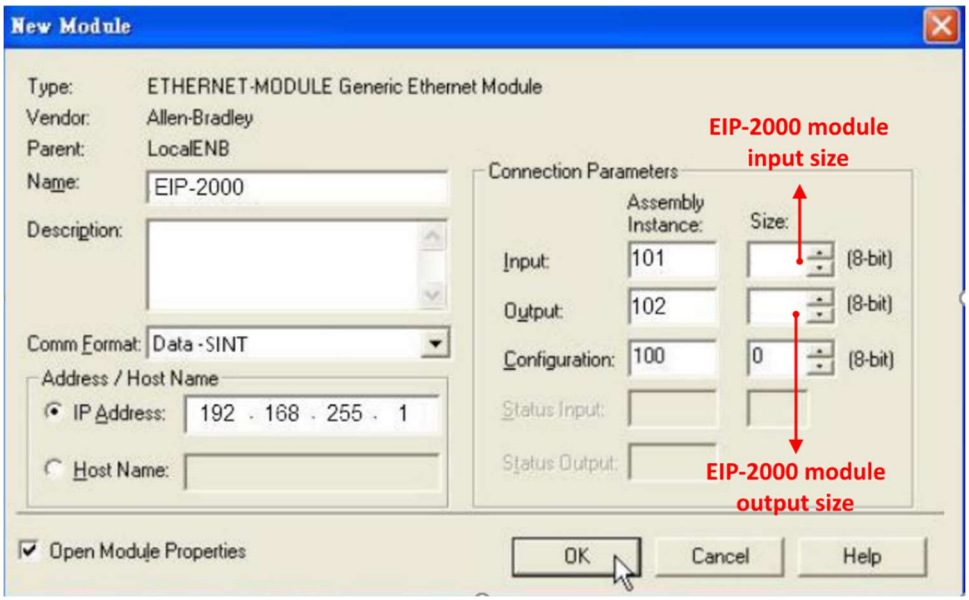
How to connect with Allen-Bradley PLC?

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



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

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

- EIP-2019 data size

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

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- EIP-2042 data size

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

- EIP-2051 data size

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

- EIP-2055 data size

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

- EIP-2060 data size

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

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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)	

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