

EIP-2042 Quick Start Guide



English/ February 2013/ Version 1.0

What's in the shipping package?

The package includes the following items:



EIP-2042



CD



Quick Start Guide (This Document)



Screw Driver



Install EIP-2000 Utility:

The software is located at: Fieldbus_CD:\EtherNetIP\remote-io\EIP-2042\Utility



- 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" on step 4 may not work. (Please contact with your system Administrator)
- 3. Check FW/OP DIP switch if it is on **OP** 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. I/O connector - EIP-2042

20-pin Spring-type terminal connecter				
Pin	Description	Pin	Description	
1	EXT.GND	2	EXT.GND	
3	EXT.PWR	4	EXT.PWR	
5	DO8	6	DO0	
7	DO9	8	DO1	
9	DO10	10	DO2	
11	DO11	12	DO3	
13	DO12	14	DO4	
15	DO13	16	DO5	
17	DO14	18	DO6	
19	DO15	20	DO7	

6. I/O Wire Connection

Output	ON	OFF
Drive Re l ay	■ Ext.PWR DOx Ext.GND	Image: State of the state
Resistance Load	±⊡⊥±= Ext.PWR DOx Ext.GND	± ±= ⊕ Ext.PWR DOx ⊕ Ext.GND



- 1. Double click the "EIP-2000 Utility" shortcut on the desktop.
- 2. Click the "Network Scan" button to search your EIP-2000 modules.

File	Device	About			
Netv	vork Scan				
	Module	e Name	Version	IP	Descripition
▶ 1	EIP_20	42	1.0	192.168.255.1	16 DO

- 3. Click the EIP-2042 or other EIP-2000 modules on the device list below to open the configuration dialog of EIP-2000. Each EIP-2000 module has its own configuration interface.
- **4.** Test the digital outputs by clicking on the red circles, and the green circles indicate the status of digital input status.

💱 Configuration for EIP_2042 Module Version:1.0(2012/12/6)	×
EIP-2042 Digital Output <u>Set Value</u> 0x FFFF 1111111111111111111111111111111	
(CH:8) (CH:15) (CH:15) (CH:15) Power On Value [Enabled] (CH:15) Safe Value [Enabled] (CH:15) (
Network Settings Module Status Firmware Version: MAC Address 00-0D-E0-80-00-0D Image: Connection success. 2012/12/6 v1.0 Address Type Static IP Image: Connection success. Image: Connection success. 2012/12/6 v1.0 Static IP Address 192 168 0 Image: Connection success. Image: Connection success. 2012/12/6 v1.0 Default Gateway 192 168 0 Image: Connection success. Image: Connection success. Image: Connection success. Solution success. Update Network Settings Image: Connection success. Image: Connection success. Image: Connection success. Solution success. Solution success. Solution success. Update Network Settings Image: Connection success. Image: Connection success. Image: Connection success. Solution success. Solut	

5. The "Power On Value", "Safe Value" and "Safe Delay" for digital output can be set without rebooting the module.

Power On Value 🔽 Enabled 🚽	Safe Value — 🔽 🗄	nabled
Set Value 0x 00	Set Value 0x 00	Set Delay 3 seconds
Current Value 0x00	Current Value 0x00	Current Delay 3 seconds

6. If the network settings have been changed, please click the "**Update Network Settings**" button to update the configuration and reboot the module.

-Network Settings			
MAC Address	00-0D-E0-80-00-00		
Address Type	Static IP		
Static IP Address	192 168 255 1		
Subnet Mask	255 255 0 0		
Default Gateway	192 168 0 1		
Update Network Settings			

7. Configuration settings of EIP-2000

Network Settings			
Item	Settings (default)		
IP	192.168.255.1		
Gateway	192.168.0.1		
Mask	255.255.0.0		
For configuration of the Address Type, Static IP Address, Subnet Mask and Default Gateway of the EIP-2000. Please refer			
to section "4.2.1 Network Settings"			

LED Indicator			
LED	LED Status	Description	
Power LED	Always On	Module is in Run mode.	
	Flashing	Module is in Init mode.	
Status LED	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 DO is activated.	
	Off	The DO is inactivated.	
For configuration of the Power On Value , Safe Value, Safe Delay for the EIP-2000. Please refer to section "4.2.2 Digital			
Settings"			

EIP-2042 Quick Start Guide



1. Open RSLogix 5000 and create a new project.



2. Select the PLC type and give the project a name.

New Controlle	т		X
Vendor:	Allen-Bradley		
<u>T</u> ype:	1769-L32E CompactLogix5332E Controller	-	ок
Re <u>v</u> ision:	17 💌		Cancel
	F Bedundancy Enabled		Help
Na <u>m</u> e:	EIP-2000		
Description:		~	
		×	
<u>C</u> hassis Type:	(none)	Ŧ	
Sl <u>o</u> t	0 Safety Partner Slot.		
Cr <u>e</u> ate In:	C:\RSLogix 5000\Projects\EIP-2000	_	Browse

Figure 5-2. Set the PLC type and project name.

3. Create a new module in the "Ethernet" item.



Figure 5-3. Create a new module.

4. Select the "ETHERNET-MODULE" below "Communications" in the Select Module window.

Select Module	Description	Vander
Digital Dives HMI		FERGI
Select Module		
Module 1768-ENET 1768-ENET 1769-L23E 1769-L23E 1769-L32E 1769-L35E 1788-EN2D 1788-EN2D 1788-ENET 1788-ENET 1784-AENT DrivelogisC ETHERNET ETHERNET	Description 'A 1768 10/100 Mbps Ethernet B 'A 1768 10/100 Mbps Ethernet B DB1 E 10/100 Mbps Ethernet Port on DBFC 10/100 Mbps Ethernet Port on DBFC 10/100 Mbps Ethernet Port on Therne 10/100 Mbps Ethernet Port on Sherne 10/100 Mbps Ethernet Port on Sherne 10/100 Mbps Ethernet Port on NA 1788 Ethernet to DeviceNet Li 'A 1788 10/100 Mbps Ethernet B 'A 1784 10/100 Mbps Ethernet A 'B 1794 10/100 Mbps Ethernet A 'A 1794 10/100 Mbps Ethernet A 'B 10/100 Mbps Ethernet A 'A 1794 10/100 Mbps Ethernet Port on -B Ethernet Ethernet Module 'MO Generic Ethernet Module	Vendor Allen-Bradley CompactLogix5323E-QB1 CompactLogix5323E-QB1 CompactLogix5323E-QB1 CompactLogix5323E CompactLogix5333E Allen-Bradley
By Category	By Vendor Favorites	Eind Add Favorite
	0	IK 😡 Cancel Help

Figure 5-4. Select "ETHERNET-MODULE".

5. Configure the new module parameters. The I/O length of new module must be the same with the length of EIP-2042 I/O data(Table 5-1). The input data size is 2 bytes and output data size is 2 bytes. The instance ID please refer to Table 5-2.

Type: Vendor: Parent:	ETHERNET-MODULE Generic Ethern Allen-Bradley LocalENB	et Module			
Na <u>m</u> e: Description:	EIP-2000	Connection Para	Assembly Instance: 101	Size:	: (8-bit)
Comm <u>F</u> ormat: Address / H IP <u>A</u> ddre	Data - SINT ost Name ss: 192 - 168 - 255 - 1 me:	Ugtput: Configuration: Status Input: Status Output:		0	·· (8-bit) ·· (8-bit)

Figure 5-5. The settings of EIP-2042 module

Table 5-1. Data Assembly of EIP-2042

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

Table 5-2. Instance ID table of EIP-2000

Implicit Message Information of EIP-2000		
Instance	Instance ID	Data length
Input(T->O)	$65_{hex}(101)$	Depends on modules. e.g.2
Out(O->T)	66 _{hex} (102)	Depends on modules. e.g.2
Configuration	$64_{hex}(100)$	