EIP-2055 快速入門指南



繁體中文/ January 2013/ 版本 1.0



產品包裝內應包含下列配件:



665 EIP-2055

EIP-2055



CD 光碟



快速入門指南 (本文件)



螺絲刀

1



安裝 EIP-2000 Utility:

軟體下載位置: Fieldbus_CD:\EtherNetIP\remote-io\EIP-2055\Utility



- 1. 確認您 PC 的網路設定正確且可運作。
- 確認您 PC 上作業系統及防毒軟體的防火牆都已關閉,否則步驟四的 "Network Scan" 可能無法正確找到 EIP-2000。(請與您的系統管理員確認)
- 3. 確認 FW/OP 開闢是在 OP 位置上。.



 將 EIP-2000 與 PC 連接至同一個集線器或同一個子網域,然後供電開機啟動 EIP-2000。



5. I/O connector - EIP-2055

	20-pin Spring-type terminal connector					
Pin	Description	Pin	Description			
1	DI.COM	2	EXT.PWR			
3	DI7	4	DO7			
5	DI6	6	DO6			
7	DI5	8	DO5			
9	DI4	10	DO4			
11	DI3	12	DO3			
13	DI2	14	DO2			
15	DI1	16	DO1			
17	DI0	18	DO0			
19	DI.GND	20	EXT.GND			

6. I/O Wire Connection

Input	ON	OFF
Re l ay Contact (Dry)	Relay □⊖ DIx Close □→ □⊖ GND	Relay □⊖ DIx Open □→ □⊖ GND
Open Col l ector (Dry)	ON ∹]ı 🛱 DIx ↓ 🛱 GND	OFFÇ × ⊕ GND
Re l ay Contact (Wet)	+ = Relay Close → DI.COM DIx	+ = Relay Open □⊖ DI.COM DIx
NPN Output (Wet)		

Output	ON	OFF
Drive Re l ay	Ext.PWR DOx Ext.GND	
Resistance Load	± ∰ı ±=	± ± ± ±



- 1. 雙擊桌面上 EIP-2000 Utility 捷徑圖示。
- 2. 單擊"Network Scan" 按鈕來搜尋您的 EIP-2000 系列模組。

File	Device	About			
Ne	twork Scan				
	Modul	e Name	Yersion	IP	Descripition
•	1 EIP_20	55	1.0	192.168.255.1	8DI / 8DO

- 點擊下方裝置列表中的 EIP-2000 模組名稱,開啟 EIP-2000 的設定與測試介面。每個 EIP-2000 系列模組都有各自的設定與測試介面。
- 使用者可點擊設定測試介面中的紅色圓圈來控制數位輸出(DO)的狀態,也可透過下 方的綠色圓圈,觀察數位輸入(DI)的狀態。

Configuration for EIP_2055 Module Version:1.0(2012/6/22)	
Digital Output Set Value IIIIIIII DO Reserve LSB (CH.0) Image: CH.0) Image: CH.0)	ceipt OxFF MSB (CH:7)
Digital Input LSB (CH:0) DI Counter Byte Order Swap DI counters Set Zero All 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MSB (CH:7)
Network Settings Module Status MAC Address 00-0D-E0-80-00-00 Address Type Static IP Static IP Address 192 Submet Mask 255 Default Gateway 192 Update Network Settings Save File File	Firmware Version: 2012/6/22 v1.0 Exit

數位輸出(DO)的啟動值(Power On Value)、安全值(Safe Value)與安全延遲(Save 5.

Delay),可直接透過設定介面完成設定,不需重新開機。

Power On Value 🖌 Enabled –	Safe Value —	En 🗠	abled	
Set Value 0x 00	Set Value	00 x0	Set Delay	3 seconds
Current Value 0x00	Current Value	0x00	Current Delay	3 seconds

完成"Network Settings"設定後,按下"Update Network Settings"按鈕來更新設定, 6. 模組將會自動重開。

-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
Undate	Network Settings
	Network Settings

7. EIP-2000 網路設定及 LED 燈號顯示可參考下表

	網路設定				
項目	設定參數(預設值)				
IP	192.168.255.1				
Gateway	192.168.0.1				
Mask	255.255.0.0				
相關內交請參昭 EIP-2000 使	用老手册的"4.2.1 Network Settings"				

伯崩行谷明多照上

	LED 指示燈				
LED	LED 狀態	說明			
Power LED	恆亮	模組處於 Run mode.			
	每秒閃爍	模組處於 Init mode.			
Status LED	恆亮	EtherNet/IP 未建立連線.			
	每秒閃爍	EtherNet/IP 已連線.			
	每 300ms 閃爍	EtherNet/IP 連線中斷,但斷線時間未達 Safe Delay.			
	每 100ms 閃爍	模組即將重開			
I/O status LED	亮	DI/DO 運作中.			
	暗	DI/DO 未運作.			
相關內容請參照 EIP-2	2000使用者手册的"4.2.2 Dig	;ital Settings"			

EIP-2055 快速入門指南



1. 開啟 AB PLC 控制整合介面 RSLogix 5000 並新增專案。

File	Edit	⊻iew	Search	Logic	\underline{C} ommunications	Tools	Window	<u>H</u> elp
	B		5 %					
ICN	Thro	ller	0. E	RUN				

2. 選擇 PLC type 並新增專案名稱。

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:		~	
		~	
Chassis Type	(none)	*	
Sigt	0 Safety Partner Slot.		
Cr <u>e</u> ate In:	C:\RSLogix 5000\Projects\EIP-2000	_	Browse

圖 5-2 新增專案名稱

3. 於 Ethernet 項目中新增新模組。



4. 在模組選項中選擇 Communications 底下的 ETHERNET-MODULE。

Provide Description Vendor Image: Division in the second seco		Description	Vandar
Digital Provide Drives HMI Select Module Description Vendor Allen-Bradle 1768-ENEL/A 1768 10/100 Mbps Ethernet Bridge, Twisted-Pair Media Allen-Bradle 1768-ENEL/A 1768 10/100 Mbps Ethernet Bridge, Twisted-Pair Media Allen-Bradle 1769-L23E-DB1 E. 10/100 Mbps Ethernet Port on CompactLogix5323E-QB1 Allen-Bradle 1769-L23E-DB1 E. 10/100 Mbps Ethernet Port on CompactLogix5323E-QB1 Allen-Bradle 1769-L32E Etherne. 10/100 Mbps Ethernet Port on CompactLogix5323E-QB1 Allen-Bradle 1769-L32E Etherne. 10/100 Mbps Ethernet Port on CompactLogix5332E Allen-Bradle 1769-L32E Home. 10/100 Mbps Ethernet Port on CompactLogix5335E Allen-Bradle 1788-ENZDNA 1788 10/100 Mbps Ethernet Bridge, Twisted-Pair Media Allen-Bradle 1788-ENZDNA 1788 10/100 Mbps Ethernet Adapter, Twisted-Pair Media Allen-Bradle 1788-ENZDNA 1788 10/100 Mbps Ethernet Port on DriveLogix5730 Allen-Bradle 1789-LENT/A 1794 10/100 Mbps Ethernet Port on DriveLogix5730 Allen-Bradle 1794-AENT/B 1794 10/100 Mbps Ethernet Port on DriveLogix5730 Allen-Bradle ETHERNET-MO. Generic Ethernet/MCPCIP Bridge <th>MOU OLE</th> <th>Description</th> <th>Vendor</th>	MOU OLE	Description	Vendor
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Allen-Bradle A	1760 END	1769 10/100 Mbns Ethernet Bridge Twisted Dais Media	Allen Dredler
1769-L23E-OBT E 10/100 Mbps Ethemet Port on CompactLogix5323E-QBT 1769-L23E-OBFC 10/100 Mbps Ethemet Port on CompactLogix5323E-QBF Allen-Bradle; 1769-L33E Etheme 10/100 Mbps Ethemet Port on CompactLogix5335E 1769-L38E ENERT 1788 Ethemet DoviceNet Linking Device 1788-ENET/A 1788 10/100 Mbps Ethemet Bridge, Twisted-Pair Media 1788-EWEB/A 1788 10/100 Mbps Ethemet Bridge w/Enhanced Web Serv Allen-Bradle; 1794-AENT/A 1794 10/100 Mbps Ethemet Adapter, Twisted-Pair Media Drivelogix5730 E 10/100 Mbps Ethemet Adapter, Twisted-Pair Media Drivelogix5730 E 10/100 Mbps Ethemet Magner, Twisted-Pair Media Drivelogix5730 E 10/100	1768-FWF	R/A 1768 10/100 Mbps Ethernet Bridge w/Finhenced Web Serv	Allen-Bradley
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1769-L32E Brheme. 10/100 Mbps Ethemet Port on CompactLogix5332E Allen-Bradle 1769-L35E Eheme. 10/100 Mbps Ethemet Port on CompactLogix5335E Allen-Bradle 1788-EN2DNA 1788 Ethemet to DeviceNet Linking Device Allen-Bradle 1788-EN2DNA 1788 10/100 Mbps Ethemet Bridge, Twisted-Pair Media Allen-Bradle 1788-EWEP/A 1788 10/100 Mbps Ethemet Bridge, Twisted-Pair Media Allen-Bradle 1788-EWEP/A 1788 10/100 Mbps Ethemet Bridge, Wishd-Pair Media Allen-Bradle 1794-AENT/A 1794 10/100 Mbps Ethemet Adapter, Twisted-Pair Media Allen-Bradle 1794-AENT/B 1794 10/100 Mbps Ethemet Port on DriveLogix5730 Allen-Bradle Privelogix5730 Bt. 10/100 Mbps Ethemet Port on DriveLogix5730 Allen-Bradle ETHERNET-MO. Generic Ethernet/IP CIP Bridge Allen-Bradle ETHERNET-MO. Generic Ethernet/Module Allen-Bradle KtherNet/IP SoftLogixSHITH EtherNet/IP Allen-Bradle By Category By Vendor Favorites Eind Add Favorit	1769-L23E	-DBFC 10/100 Mhps Ethernet Port on CompactLogitS323E-OBF	Allen-Bradley
1769-L35E Eneme 10/100 Mbps Ethemet Port on CompactLogix5335E Allen-Bradle 1788-EN2DNA 1788 Ethemet to DeviceNet Linking Device Allen-Bradle 1788-EN2DNA 1788 10/100 Mbps Ethemet Bridge, Twisted-Pair Media Allen-Bradle 1788-EWED/A 1788 10/100 Mbps Ethemet Bridge, Twisted-Pair Media Allen-Bradle 1788-EWED/A 1788 10/100 Mbps Ethemet Bridge, Twisted-Pair Media Allen-Bradle 1794-AEN T/A 1794 10/100 Mbps Ethemet Adapter, Twisted-Pair Media Allen-Bradle 1794-AEN T/B 1794 10/100 Mbps Ethemet Port on DriveLogis/5730 Allen-Bradle Drivelogis/5730 BL 10/100 Mbps Ethemet Port on DriveLogis/5730 Allen-Bradle ETHERNET-BRU Generic EtherNet/IP CIP Bridge Allen-Bradle ETHERNET-BRU Generic EtherNet/IP CIP Bridge Allen-Bradle EtherNet/IP SoftLogis/SHULEtherNet/IP Allen-Bradle By Category By Vendor Favorites Eind Add Favorit	-1769-L32E	Heheme 10/100 Mbps Ethemet Port on CompactLogix5332E	Allen-Bradley
1788-EN2DNA 1788 Ethernet to DeviceNet Linking Device Allen-Bradle 1788-ENET/A 1788 10/100 Mbps Ethernet Bridge, Twisted-Pair Media Allen-Bradle 1788-ENET/A 1788 10/100 Mbps Ethernet Bridge w/Enhanced Web Serv. Allen-Bradle 1788-ENT/A 1798 10/100 Mbps Ethernet Bridge w/Enhanced Web Serv. Allen-Bradle 1794-AENT/A 1794 10/100 Mbps Ethernet Adapter, Twisted-Pair Media Allen-Bradle 1794-AENT/B 1794 10/100 Mbps Ethernet Adapter, Twisted-Pair Media Allen-Bradle Drivelogix5730 Et. 10/100 Mbps Ethernet Port on DriveLogix5730 Allen-Bradle ETHERNET-BRN Generic Ethernet Module Allen-Bradle ETHERNET' NO. Generic Ethernet Module Allen-Bradle EtherNet/P SoftLogix58000 Ethernet/PC Allen-Bradle Image: Eind Add Favorit By Category By Vendor Favorites	1769-L35E	Eheme., 10/100 Mbps Ethemet Port on CompactLogix5335E	Allen-Bradley
1788-ENBT/A 1788 10/100 Mbps Ethernet Bridge, Twisted-Pair Media Allen-Bradle 1788-EWEE/A 1788 10/100 Mbps Ethernet Bridge, Twisted-Pair Media Allen-Bradle 1794-AENT/A 1794 10/100 Mbps Ethernet Adapter, Twisted-Pair Media Allen-Bradle 1794-AENT/B 1794 10/100 Mbps Ethernet Adapter, Twisted-Pair Media Allen-Bradle 1794-AENT/B 1794 10/100 Mbps Ethernet Adapter, Twisted-Pair Media Allen-Bradle Drivelogix5730 th 10/100 Mbps Ethernet Port on DriveLogix5730 Allen-Bradle ETHERNET-BRY Generic EtherNet/IP CIP Bridge Allen-Bradle ETHERNET-MO Generic EtherNet/IP CIP Bridge Allen-Bradle EtherNet/IP NottLogix28000 EtherNet/IP Allen-Bradle By Category By Vendor Favorites Allen Add Favorite	1788-EN2I	DNA 1788 Ethernet to DeviceNet Linking Device	Allen-Bradley
1788-EWEB/A 1788 10/100 Mbps Ethernet Bridge w/Enhanced Web Serv Allen-Bradle; 1794-AENT/A 1794 10/100 Mbps Ethernet Adapter, Twisted-Pair Media 1794-AENT/B 1794 10/100 Mbps Ethernet Adapter, Twisted-Pair Media 1794-AENT/B 1794 10/100 Mbps Ethernet Adapter, Twisted-Pair Media Drivelogis/S730 Eth. 1/100 Mbps Ethernet Poir to DriveLogis/S730 ETHERNET-RKU Generic EtherNet/IP CIP Bridge ETHERNET-MO Generic EtherNet/IP Allen-Bradle; Allen-Bradle; Allen-Bradle; Allen-Bradle; EtherNet/IP SoftLogis/S8000 EtherNet/IP Allen-Bradle; Allen-Bradle; Eind Add Favorit By Category By Vendor Favorites OK	1788-ENB	T/A 1788 10/100 Mbps Ethernet Bridge, Twisted-Pair Media	Allen-Bradley
I794-AEN T/A 1794 10/100 Mbps Ethernet Adapter, Twisted-Pair Media 1794-AEN T/B 1794 10/100 Mbps Ethernet Adapter, Twisted-Pair Media Drivelogis5730 Bt 10/100 Mbps Ethernet Port on DriveLogis5730 ETHERNET-RO Generic Ethernet/P CIP Bridge ETHERNET-MO Generic Ethernet/P CIP Bridge EtherNet/IP SoftLogisSBUILEtherNet/IP Eind Allen-Bradle Eind Add Favorite By Category By Vendor Favorites	- 1788-EWE	B/A 1788 10/100 Mbps Ethemet Bridge w/Enhanced Web Serv.	. Allen-Bradley
1794-AEN T/B 1794 10/100 Mbps Ethemet Adapter, Twisted-Pair Media Allen-Bradle; Drivelogis/5730 Bt 10/100 Mbps Ethemet Port on DriveLogis/5730 Allen-Bradle; ETHERNET-REG Generic EtherNet/IP CIP Bridge Allen-Bradle; ETHERNET-MO Generic EtherNet/IP Allen-Bradle; KitherNet/IP SoftLogis/SPRILLEtherNet/IP Allen-Bradle; Eind	- 1794-AEN	T/A 1794 10/100 Mbps Ethernet Adapter, Twisted-Pair Media	Allen-Bradley
DriveLogix5730 H 10/100 Mbps Ethernet Port on DriveLogix5730 Allen-Bradle: ETHERNET-BRO Generic EtherNet/P Cl P Bridge EtherNet/P SoftLogix58101 EtherNet/P Allen-Bradle: Eind Add Favorite By Category By Vendor Favorites	1794-AEN	T/B 1794 10/100 Mbps Ethernet Adapter, Twisted-Pair Media	Allen-Bradley
	Drivelogiy	5730 Bt., 10/100 Mbps Ethemet Port on DriveLogix5730	Allen-Bradley
	Direiogia	T-BKW Generic EtherNet/IP CIP Bridge	Allen-Bradley
By Category By Vendor Favorites	ETHERNE		State of the local division of the local div
Eind Add Favorites	ETHERNE	T-MO Generic Ethernet Module	Allen-Bradley
Eind Add Favorit By Category By Vendor Favorites	ETHERNE ETHERNE EtherNet/IP	T-MO Generic Ethernet Module SottLogradBIII EtherNet/IP	Allen-Bradley Allen-Bradley
By Category By Vendor Favorites	ETHERNE ETHERNE EtherNet/IF	T-MO Generic Ethernet Module SottLoexSHIII EtherNet/IP	Allen-Bradley Allen-Bradley
By Category By Vendor Favorites	ETHERNE ETHERNE RiberNet/IF	T-MO Generic Ethernet Module SottLoenx 28101 EtherNet/IP	Allen-Bradley
	ETHERNE ETHERNE BiberNet/IF	T-MO Generic Ethernet Module SottLoerxXXIIII EtherNet/IP	Allen-Bradley
OK N Canad Hala	ETHERNE ETHERNE KiberNet/IF	T-MO Generic Ethernet Module SottLoerxXBUIL EtherNet/IP Eind Eind	Allen-Bradley Allen-Bradley Add Favorite
	ETHERNE ETHERNE EtherNet/IF By Category	T-MO Generic Ethemet Module SottLoerxXBIIII EtherNet/IP Eind By Vendor Favorites	Allen-Bradley Allen-Bradley

圖 5-4 IO 選擇 ETHERNET-MODULE

5. 設定新模組參數,新增模組輸出與輸入長度必須與 EIP-2055 模組 I/O 資料長度一致,資料輸入的長度必須為 34 bytes 而輸出的長度必須為 2 bytes, EIP-2055 的 I/O 資料長度如表 5-1, Instance ID 如表 5-2。

New Module						×
Type: Vendor: Parent:	ETHERNET-MODULE Generic Etherne Allen-Bradley LocalENB	t Module				
Na <u>m</u> e: Descri <u>p</u> tion:	EIP-2000	Connection Para	Assembly Instance: 101	Size:	÷ (8-bit)	
Comm <u>F</u> ormat: Address / H	Data - SINT	O <u>u</u> tput: <u>C</u> onfiguration: Status Input:	102	0	(8-bit)	
C Host Na	me:	Status Output.	, 	,		_
🔽 Open Modu	le Properties	ОК	Can	cel	Help]

圖 5-5 EIP-2055 模組參數設定

表 5-1 EIP-2055 的 I/O 資料長度

Data Assembly	Byte count	Description
Input Assembly	34	$\frac{1^{\text{st}} \text{ Byte: DI status.}}{2^{\text{nd}} \text{ Byte: DO status read back.}}$ $3^{\text{rd}} \sim 34^{\text{th}} \text{ Byte: DI counters.}$
Output Assembly	2	1 st Byte: DO status. 2 nd Byte: to set DI counters zero

表	5-2	EIP-2000	的	Instance	ID	表
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Implicit Message Information of EIP-2000			
Instance	Instance ID	Data length	
Input(T->O)	$65_{hex}(101)$	Depends on modules. e.g.34	
Out(O->T)	66 _{hex} (102)	Depends on modules. e.g.2	
Configuration	$64_{hex}(100)$		