

# EIP-2019 快速入門指南



繁體中文/ January 2014/ 版本 1.2



產品包裝內應包含下列配件:





CD 光碟

**EIP-2019** 



快速入門指南 (本文件)



螺絲刀



**CN-1824** 

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安裝 EIP-2000 Utility:

軟體下載位置: Fieldbus\_CD:\EtherNetIP\remote-io\EIP-2019\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,參考圖 3-1。.



圖 3-1 Mode Switch 選擇開關

 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-2000,參考圖 3-2。



圖 3-2 EIP-2000 模組接線安裝

## EIP-2019 快速入門指南

#### 5. I/O connector - EIP-2019

I. D-Sub

Pin	Terminal	$\sim$	No.	Pin
+5V	01	•		
CJC	02	• •	14	AGND
CH 0-	03	• •	15	CH 0+
CH 1-	04	•	16	CH 1+
CH 2-	05	•	17	CH 2+
СН 3-	06	••	18	CH 3+
	07	•	19	CH 4+
	08	•	20	CH 5+
	00	•	21	CH 6+
	10	•	22	CH 7+
Сп/-	10	••	23	N.C.
N.C.	11	••	24	N.C.
N.C.	12	••	25	N.C.
N.C.	13	$\mathbf{\mathbf{O}}$	SHIELD	F.G.

II. CN-1824

Pin	Description
01	CH0+
02	CH0-
03	CH1+
04	CH1-
05	CH2+
06	CH2-
07	CH3+
08	CH3-
09	CH4+
10	CH4-
11	CH5+
12	CH5-
13	CH6+
14	CH6-
15	CH7+
16	CH7-
17	AGND
18	AGND



#### III. I/O Wire Connection

Voltage Input	Thermocouple Input
mV/V + V □⊖ CH+ □⊖ CH-	+ - CH+ CH- CH-

EIP-2000 Utility

- 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,參考圖 4-1。

	Netw	vork Scan			
Γ		Module Name	Version	IP	Descripition
	► 1	EIP_2019	1.1	192.168.255.1	8-ch Thermocouple Input

圖 4-1 EIP-2000 Utility 模組掃描

- 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,參考圖 4-2:
  - (1) 使用者可以點擊"Analog Input Status"介面中的 Type Code 下拉式選單來選擇通道的量測範圍。
  - (2) 在"AI Parameters"介面中,使用者可以選擇濾波器的種類,模組提供了 50Hz 及 60Hz 兩種濾波器選項。Utility 也提供了兩種 AI 表示方式,分別為工程單位 (Engineer)顯示以及十六進制(Hex)顯示方式。
  - (3) 在"CJC Settings"介面中,使用者可以選擇開啟或關閉冷接點補償(CJC)功能, 並提供 CJC Offset 給使用者調整 CJC 補償誤差。
  - (4) 完成"Network Settings"設定後,按下"Update Network Settings"按鈕來更新設定,模組將會自動重開。

### EIP-2019 快速入門指南

🏘 Configuration for H	🖗 Configuration for EIP_2019 Module Version:1.1(2013/11/5)						
é nolo a Japant Statua	E (1)	EIP-2019	9	Firmware Version: 2013/11/5 v1.1			
Select All Chan	( <b>1</b> ) mel	Type Code	CJC Offset				
🕑 СНО 0.065	5 mV	+/-15mV 💌	0	AI Paremeters (2)			
✓ CH1 -0.03	} mV	+/-15mV 💌	0	Filter 50Hz			
CH2 0.07	8 mV	+/-15mV 🗸	0	Break Detect			
🔽 СНЗ -0.03	35 mV	+/-15mV 🗸	0	CIC Settings (3)			
✓ CH4 0.075	5 mV	+/-15mV 💌	0	✓ CJC 29.2			
🗹 СНЗ -0.03	32 m∛	+/-15mV 💌	0				
🗹 СН6 0.076	5 mV	+/-15mV 🔽	0	CJC Increment			
✓ CH7 -0.02	27 mV	+/-15mV 🗸	0				
Network Settings	4)		Module Status				
MAC Address	00-0D-E0-80-	-00-14		Save			
Address Type	Static IP	*	EIP connection (12-04 06:02.54	success. Log			
Static IP Address	192 168 2	55 1		Clear			
Subnet Mask	255 255 0	0		Log			
Default Gateway	192 168 0	1	Setting Files				
Update N	etwork Settin	gs	Load File File	Exit			

圖 4-2 EIP-2000 Utility 模組操作介面

4. EIP-2000 網路設定及 LED 燈號顯示可參考表 4-1 及表 4-2。

#### 表 4-1 EIP-2000 模組網路參數設定

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 FIP-2000 使用去手册的"421 Network Settings"					

表 4-2 EIP-2017 及 EIP-2019 模組 LED 指示燈

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.			
	每 100ms 閃爍	模組即將重開			
Error LED	亮/閃爍	AI輸入狀態超出臨界值			
	暗	AI輸入狀態未超出臨界值			
相關內容請參照 EIP-2	2000使用者手册的"4.2.2 Dig	ital Settings"			

# EIP-2019 快速入門指南

5 如何與 Allen-Bradley PLC 連線?

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

File	Edit	View	Search	Logic	$\underline{\mathbf{C}}$ ommunications	Tools	Window	Help
			5 8	Pa 6				
NO	Thro	ller	0- 0	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)	*	
Slgt	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
Drives       Prives         B Drives       HMI         Select Module       Description       Vendor         1768-ENET/A       1768 10/100 Mbps Ethemet Bridge, Twisted-Pair Media       Allen-Bradle         1769-L23E OB1 E.       10/100 Mbps Ethemet Port on CompactLogix5323E-QB1       Allen-Bradle         1769-L23E OB1 E.       10/100 Mbps Ethemet Port on CompactLogix5323E-QB1       Allen-Bradle         1769-L23E DB1 E.       10/100 Mbps Ethemet Port on CompactLogix5323E-QB1       Allen-Bradle         1769-L32E Etheme.       10/100 Mbps Ethemet Port on CompactLogix5332E       Allen-Bradle         1769-L35E Etheme.       10/100 Mbps Ethemet Port on CompactLogix5335E       Allen-Bradle         1788-EN2DNA       1788 10/100 Mbps Ethemet Bridge, Twisted-Pair Media       Allen-Bradle         1788-EN2DNA       1788 10/100 Mbps Ethemet Bridge, Twisted-Pair Media       Allen-Bradle         1788-EN2DNA       1788 10/100 Mbps Ethemet Proton DriveLogix5730       Allen-Bradle         1788-EWEB/A       1788 10/100 Mbps Ethemet Porton DriveLogix5730       Allen-Bradle         1794-AENT/B       1794 10/100 Mbps Ethemet Porton DriveLogix5730       Allen-Bradle         1794-AENT/B       1794 10/100 Mbps Ethemet Porton DriveLogix5730       Allen-Bradle         1794-AENT/B       1794 10/100 Mbps Ethemet Porton DriveLogix5730       Allen-Bradle     <	Digital		
■ HMI         Select Module         Module       Description       Yendor         1768-ENET/A       1768 10/100 Mbps Ethemet Bridge, Twisted-Pair Media       Allen-Bradle         1769-L23E OBI E       1768 10/100 Mbps Ethemet Port on CompactLogix5323E-QBI       Allen-Bradle         1769-L23E OBI E       10/100 Mbps Ethemet Port on CompactLogix5323E-QBF.       Allen-Bradle         1769-L32E Heme.       10/100 Mbps Ethemet Port on CompactLogix5323E-QBF.       Allen-Bradle         1769-L32E Heme.       10/100 Mbps Ethemet Port on CompactLogix5332E       Allen-Bradle         1769-L32E Breme.       10/100 Mbps Ethemet Port on CompactLogix5332E       Allen-Bradle         1769-L32E Heme.       10/100 Mbps Ethemet Port on CompactLogix5332E       Allen-Bradle         1789-EN2DNA       1788 10/100 Mbps Ethemet Bridge, Twisted-Pair Media       Allen-Bradle         1788-ENEDTA       1788 10/100 Mbps Ethemet Adapter, Twisted-Pair Media       Allen-Bradle         1794-AENT/A       1794 10/100 Mbps Ethemet Port on DriveLogix5730       Allen-Bradle         1794-AENT/B       10/100 Mbps Ethemet Port on DriveLogix5730       Allen-Bradle         Drivelogix5730 Eth.       IOHON Mbps Ethemet Port on DriveLogix5730       Allen-Bradle         ETHERNET-MO.       Generic Ethemet Module       Allen-Bradle         Numerouthethethethethethethethe	+ Drives	2	
Select Module       Description       Vendor         1768-ENEDYA       1768 10/100 Mbps Ethernet Bridge, Twisted-Pair Media       Allen-Bradle;         1768-EWEB/A       1768 10/100 Mbps Ethernet Bridge w/Enhanced Web Serv Allen-Bradle;       Allen-Bradle;         1769-L23E-DBFC       10/100 Mbps Ethernet Port on CompactLogix5323E-QBF       Allen-Bradle;         1769-L32E DBFC       10/100 Mbps Ethernet Port on CompactLogix532E-QBF       Allen-Bradle;         1769-L32E DBFC       10/100 Mbps Ethernet Port on CompactLogix5332E       Allen-Bradle;         1769-L32E Enere       10/100 Mbps Ethernet Port on CompactLogix5332E       Allen-Bradle;         1769-L32E Horem       10/100 Mbps Ethernet Port on CompactLogix5332E       Allen-Bradle;         1789-ENZDNA       1788 Ethernet indige, Twisted-Pair Media       Allen-Bradle;         1788-ENET/A       1794 10/100 Mbps Ethernet Bridge, W/Enhanced Web Serv       Allen-Bradle;         1788-ENT/A       1794 10/100 Mbps Ethernet Adapter, Twisted-Pair Media       Allen-Bradle;         1794-AENT/A       1794 10/100 Mbps Ethernet Port on DriveLogix5730       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-REW       Generic Ethernet Mo	+ HMI		
Select Module       Description       Vendor         1768-ENEL/A       1768 10/100 Mbps Ethernet Bridge, Twisted-Pair Media       Allen-Bradle;         1768-ENEL/A       1768 10/100 Mbps Ethernet Bridge, WEnhanced Web Serv.       Allen-Bradle;         1769-L23E 0B1 E       10/100 Mbps Ethernet Port on CompactLogix5323E-QB1       Allen-Bradle;         1769-L23E DBPC.       10/100 Mbps Ethernet Port on CompactLogix5323E-QB7.       Allen-Bradle;         1769-L32E Etherne.       10/100 Mbps Ethernet Port on CompactLogix5332E       Allen-Bradle;         1769-L32E Etherne.       10/100 Mbps Ethernet Port on CompactLogix5332E       Allen-Bradle;         1769-L32E Etherne.       10/100 Mbps Ethernet Port on CompactLogix5332E       Allen-Bradle;         1769-Bisse Enversion       10/100 Mbps Ethernet Bridge, Twisted-Pair Media       Allen-Bradle;         1788 ENDTA       1788 10/100 Mbps Ethernet Bridge, Twisted-Pair Media       Allen-Bradle;         1788-ENET/A       1794 10/100 Mbps Ethernet Adapter, Twisted-Pair Media       Allen-Bradle;         1794-AEN T/A       1794 10/100 Mbps Ethernet Port on DriveLogix5730       Allen-Bradle;         1794-AEN T/A       1794 10/100 Mbps Ethernet Adapter, Twisted-Pair Media       Allen-Bradle;         Drivelogix5730 tt       10/100 Mbps Ethernet Port on DriveLogix5730       Allen-Bradle;         ETHERNET-BRM       Generic Ethernet			
Select Module       Description       Vendor         1768-ENET/A       1768 10/100 Mbps Ethernet Bridge, Twisted-Pair Media       Allen-Bradle;         1768-ENET/A       1768 10/100 Mbps Ethernet Bridge, Twisted-Pair Media       Allen-Bradle;         1768-ENET/A       1768 10/100 Mbps Ethernet Bridge, Twisted-Pair Media       Allen-Bradle;         1769-L23E OBI E       10/100 Mbps Ethernet Port on CompactLogix532E-QBI       Allen-Bradle;         1769-L23E DBFC       10/100 Mbps Ethernet Port on CompactLogix5332E       Allen-Bradle;         1769-L32E Etherne       10/100 Mbps Ethernet Port on CompactLogix5332E       Allen-Bradle;         1769-L32E Etherne       10/100 Mbps Ethernet Port on CompactLogix5332E       Allen-Bradle;         1769-L32E Etherne       10/100 Mbps Ethernet Port on CompactLogix5332E       Allen-Bradle;         1788-ENDT/A       1788 Ethernet to DeviceNet Linking Device       Allen-Bradle;         1788-ENET/A       1788 10/100 Mbps Ethernet Enidge, Twisted-Pair Media       Allen-Bradle;         1794-AENT/A       1794 10/100 Mbps Ethernet Adapter, Twisted-Pair Media       Allen-Bradle;         1794-AENT/A       1794 10/100 Mbps Ethernet Adapter, Twisted-Pair Media       Allen-Bradle;         Drivelogix5730 Eth       10/100 Mbps Ethernet Port on DriveLogix5730       Allen-Bradle;         ETHERNET-REN       Generic EtherNet/IP CIP En			
Select Module       Description       Vendor         1768-ENET/A       1768 10/100 Mbps Ethernet Bridge, Twisted-Pair Media       Allen-Bradle:         1768-ENET/A       1768 10/100 Mbps Ethernet Bridge, Twisted-Pair Media       Allen-Bradle:         1768-ENET/A       1768 10/100 Mbps Ethernet Bridge w/Enhanced Web Serv.       Allen-Bradle:         1769-L23E-OBE       10/100 Mbps Ethernet Port on CompactLogix5323E-OBE       Allen-Bradle:         1769-L32E Bheme.       10/100 Mbps Ethernet Port on CompactLogix5332E       Allen-Bradle:         1769-L32E Bheme.       10/100 Mbps Ethernet Port on CompactLogix5332E       Allen-Bradle:         1769-L32E Bheme.       10/100 Mbps Ethernet Port on CompactLogix5335E       Allen-Bradle:         1788-EN2DNA       1788 Ethernet bridge, Twisted-Pair Media       Allen-Bradle:         1788-EN2DNA       1788 10/100 Mbps Ethernet Bridge, W/Enhanced Web Serv.       Allen-Bradle:         1788-EWEB/A       1788 10/100 Mbps Ethernet Adapter, Twisted-Pair Media       Allen-Bradle:         1794-AENT/A       1794 10/100 Mbps Ethernet Adapter, Twisted-Pair Media       Allen-Bradle:         Drivelogix5730 Bt.       110/100 Mbps Ethernet Port on DriveLogix5730       Allen-Bradle:         ETHERNET-REV       Generic EtherNet/IP CIP Bridge       Allen-Bradle:         EtherNet/IP       SoftLoexXBIII EtherNet/IP       Allen-Bradle:			
Select Module       Description       Vendor         1768-ENET/A       1768 10/100 Mbps Ethemet Bridge, Twisted-Pair Media       Allen-Bradle;         1768-ENET/A       1768 10/100 Mbps Ethemet Bridge w/Enhanced Web Serv Allen-Bradle;       1769-L23E QB1 E 10/100 Mbps Ethemet Port on CompactLogix5323E-QB1       Allen-Bradle;         1769-L23E QB1 E 10/100 Mbps Ethemet Port on CompactLogix5323E-QB1       Allen-Bradle;       1769-L33E QB1 10/100 Mbps Ethemet Port on CompactLogix5332E       Allen-Bradle;         1769-L33E Eheme.       10/100 Mbps Ethemet Port on CompactLogix5333E       Allen-Bradle;         1788-ENDZDNA       1788 Ethemet to DeviceNet Linking Device       Allen-Bradle;         1788-ENDZDNA       1788 10/100 Mbps Ethemet Bridge, Twisted-Pair Media       Allen-Bradle;         1788-ENDZDNA       1788 10/100 Mbps Ethemet Bridge, Twisted-Pair Media       Allen-Bradle;         1788-ENDZDNA       1788 10/100 Mbps Ethemet Adapter, Twisted-Pair Media       Allen-Bradle;         1794-AENT/B       1794 10/100 Mbps Ethemet Adapter, Twisted-Pair Media       Allen-Bradle;         Drivelogix5730 Eth.       I0/100 Mbps Ethemet Port on DriveLogix5730       Allen-Bradle;         ETHERNET-MO       Generic Ethernet/IP CIP Bridge       Allen-Bradle;         HitterNet/IP       SoftLogixSHIT EtherNet/IP       Allen-Bradle;         EtherNet/IP       SoftLogixSHIT EtherNet/IP <t< td=""><td></td><td></td><td></td></t<>			
Module       Description       Vendor         1768-ENET/A       1768 10/100 Mbps Ethernet Bridge, Twisted-Pair Media       Allen-Bradle;         1768-EWEWA       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-DB1C       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 CompactLogix5335E       Allen-Bradle;         1788-ENZDNA       1788 Ethernet to DeviceNet Linking Device       Allen-Bradle;         1788-ENZDNA       1788 Ethernet to DeviceNet Linking Device       Allen-Bradle;         1788-EWEB/A       1788 10/100 Mbps Ethernet Bridge, Twisted-Pair Media       Allen-Bradle;         1788-EWEB/A       1788 10/100 Mbps Ethernet Adapter, Twisted-Pair Media       Allen-Bradle;         1794-AENT/B       1794 10/100 Mbps Ethernet Port on DriveLogix5730       Allen-Bradle;         Drivelogix5730 Bt       10/100 Mbps Ethernet Port on DriveLogix5730       Allen-Bradle;         ETHERNET-MO       Generic Ethernet Module       Allen-Bradle;         EtherNet/P       NottLogixXBIIII EtherNet/P       Allen-Bradle;	Select Module		
Module     Description     Vendor       1768-ENET/A     1768 10/100 Mbps Ethernet Bridge, Twisted-Pair Media     Allen-Bradle;       1769-L23E-0B1 E     1768 10/100 Mbps Ethernet Port on CompactLogix5323E-QB1     Allen-Bradle;       1769-L23E-0B1 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-L35E Etherne.     10/100 Mbps Ethernet Port on CompactLogix5335E     Allen-Bradle;       1788-EN2DNA     1788 10/100 Mbps Ethernet Port on CompactLogix5335E     Allen-Bradle;       1788-EN2DNA     1788 10/100 Mbps Ethernet Bridge, Twisted-Pair Media     Allen-Bradle;       1788-ENET/A     1788 10/100 Mbps Ethernet Bridge, Twisted-Pair Media     Allen-Bradle;       1788-ENED/A     1788 10/100 Mbps Ethernet Port on DriveLogix5730     Allen-Bradle;       1794-AENT/B     1794 10/100 Mbps Ethernet Adapter, Twisted-Pair Media     Allen-Bradle;       Drivelogix5730 Bt     10/100 Mbps Ethernet Port on DriveLogix5730     Allen-Bradle;       Drivelogix5730 Bt     10/100 Mbps Ethernet Port on DriveLogix5730     Allen-Bradle;       ETHERNET-MO     Generic Ethernet Module     Allen-Bradle;       EtherNet/P     SottLogix28HIII EtherNet/P     Allen-Bradle;    <			
Provide       Provide       Provide       Provide       Provide       Provide       Allen-Bradle;         1768-EWEB/A       1768 10/100 Mbps Ethermet Bridge, Twisted-Pair Media       Allen-Bradle;       Allen-Bradle;         1769-L23E-DBFC       10/100 Mbps Ethermet Port on CompactLogix5323E-QBF.       Allen-Bradle;         1769-L23E-DBFC       10/100 Mbps Ethermet Port on CompactLogix5323E-QBF.       Allen-Bradle;         1769-L32E Ehreme.       10/100 Mbps Ethermet Port on CompactLogix5332E       Allen-Bradle;         1769-L32E Ehreme.       10/100 Mbps Ethermet Port on CompactLogix5332E       Allen-Bradle;         1769-L32E Ehreme.       10/100 Mbps Ethermet Port on CompactLogix5335E       Allen-Bradle;         1788-EN2DN.4       1788 Ethermet to DeviceNet Linking Device       Allen-Bradle;         1788-ENEDTA       1788 10/100 Mbps Ethermet Bridge, Twisted-Pair Media       Allen-Bradle;         1788-ENED/A       1788 10/100 Mbps Ethermet Bridge, Twisted-Pair Media       Allen-Bradle;         1794-AEN T/A       1794 10/100 Mbps Ethermet Prot on DriveLogix5730       Allen-Bradle;         1794-AEN T/B       1794 10/100 Mbps Ethermet Port on DriveLogix5730       Allen-Bradle;         Drivelogix5730 BL.       10/100 Mbps Ethermet Port on DriveLogix5730       Allen-Bradle;         ETHERNET-MO.       Generic Ethernet Module       Allen-Bradle;	Module	Description	Vendor
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 Mbps Ethemet Magner, Twisted-Pair Media     Drivelogix5730 E 10/100 Mbps Ethemet Magner, Twisted-Pair Media     Drivelogix5730 E 10/100 Mbps Ethemet Port on DriveLogix5730     ETHERNET-MO Generic EtherNet/IP CIP Bridge     ETHERNET-MO Generic EtherNet/IP CIP Bridge     EtherNet/IP SoftLogixSBUILEtherNet/IP     SoftLogixSBUILEtherNet/IP     Eind Add Favorit      By Category By Vendor Favorites	1768-FWF	R/A 1768 10/100 Mbps Ethernet Bridge w/Finhenced Web Serv	Allen-Bradley
1769-L23E-DEPC 10/100 Mbps Ethemet Port on Compact ogix5323E -QBF Allen-Bradle 1769-L32E Etheme 10/100 Mbps Ethemet Port on Compact ogix5332E Allen-Bradle 1769-L33E Etheme 10/100 Mbps Ethemet Port on Compact ogix5332E Allen-Bradle 1788-EN2DNA 1788 Ethemet to DeviceNet Linking Device Allen-Bradle 1788-ENET/A 1788 10/100 Mbps Ethemet Bridge, Twisted-Pair Media 1788-EWED/A 1788 10/100 Mbps Ethemet Enidge, WEnhaned Web Serv Allen-Bradle 1794-AENT/A 1794 10/100 Mbps Ethemet Adapter, Twisted-Pair Media Drivelogix5730 Et 10/100 Mbps Ethemet Port on DriveLogix5730 Allen-Bradle ETHERNET-RO Generic EtherNet/IP CIP Enidge Allen-Bradle EtherNet/IP SoftLoexSBUILEtherNet/IP Allen-Bradle Malen-Bradle Eind Add Favorite Eind Add Favorite Eind Add Favorite	1769-1.235	OBLE 10/100 Mhrs Ethemet Port on CompactLogiv5323E-OB1	Allen-Bradley
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       Midd	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-MO.       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-2019 模組 I/O 資料長度一致,資料輸入的長度必須為 41bytes 而輸出的長度必須為 23 bytes, EIP-2019 的 I/O 資料長度如表 5-1, Instance ID 如表 5-2。

'ype: /endor: <sup>p</sup> arent:	ETHERNET-MODULE Gene Allen-Bradley LocalENB	ric Ethernet Module		
la <u>m</u> e: )escri <u>p</u> tion:	EIP-2000	Connection Par	Assembly Instance: 101	Size:
Comm <u>F</u> orma - Address / I • IP <u>A</u> dd	t: Data - SINT Host Name ress: 192 - 168 - 255 -	Configuration:     Status Input:     Status Output		0 * (8-bit)

圖 5-5 EIP-2019 模組參數設定

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

#### 表 5-1 EIP-2019 的 I/O 資料長度

#### 表 5-2 EIP-2000 的 Instance ID 表

Implicit Message Information of EIP-2000		
Instance	Instance ID	Data length
Input(T->O)	$65_{hex}(101)$	Depends on modules. e.g.41
Out(O->T)	66 <sub>hex</sub> (102)	Depends on modules. e.g.23
Configuration	$64_{hex}(100)$	