瀚達電子 Aport-31x Windows 工具程式簡易中文操作手册

- 1. SW 安裝及說明
- 2. 設定及操作說明
- 3. COM Port 設定安裝
- 4. Firmware Upgrade
- 1. SW 安裝
- 1.1. 執行 CD 中的 serup.exe,並依提示視窗進行安裝



≌ Aton:31X Setup APort - 31X	Aust-112 Setup			
	See has	ndt Wicard Complete		
		<u>c Bock</u> Finish Cancel		
	🗋 Aport 311 🛛 🕉 MSN Mess 🗍 副務題创世	∫ @ Yahool≢ ∫ @ Aport-31x ∫ @)养蕈創世 [1] APort-31X	①目 1 ② ● 5 ¹¹ ▲ ▲ ○ Ⅲ 〒午 04:37

1.2.安裝完成後,於[開始] [程式集] 中產生一個 [Artila] 目錄

1.3.軟體說明

- Install Virtual COM

將 Aport-31x 的 Port 映設到 PC Windows 作業系統中的 COM Port

and Server						
Server name	IP address	Protocol	Port	Flow control	COM name	T
Aport-312 Aport-312	192.168.1.254 192.168.1.254	TCP TCP	4000 4001	None None	Not mapped Not mapped	
	Install			Close		

- Aport-31X Manager

Aport-31x 的主要管理工具程式

- 透過網路(Ethernet)找到所有安裝的 Aport-31x
- 進行 Aport-31x 參數設定
- 進行 Aport-31x 運行監控

🛃 APort-31X Ma	nager						_ 0 🛛
Server View Exi	t <u>H</u> elp						
8							
1	Server name	IP address	Protocol	Port	COM name	Status	
Firmware Upgrade	Aport-312 Aport-312	192.168.1.254 192.168.1.254	TCP TCP	4000 4001	Not mapped Not mapped	Not connected Not connected	
Virtual COM							
Configuration							
Searching Server							
Uninstall Virtual COM							
<u> </u>							
Monitor Port Status							
	Virtual COM Lis	t Serial Server List					

- 2. 設定及操作說明
- 2.1. 透過網路找到已安裝的 Aport-31x

Aport-31x 可以透過網路進行參數設定及相關的操作,但在進行設定之前,需先找到目標 Aport-31x,透過管理工具 Aport 31X Manager,即可輕鬆的達到此目地

🛃 APort-31X Ma	nager							_ 🗆 🔀
Server ⊻iew Exit	<u>H</u> elp							
?								
1	Server name	IP address		Protocol	Port	COM name	Status	
Firmware Upgrade								
			Search s	etup	_			
Virtual COM			Sear	rch Specified Ser	wer:			
Comigatation				IP Address:		-		
			v	Search all reachs	able servers.			
Searching								
Derver				UK	Cance			
Uninstall Virtual COM								
<u> </u>								
Monitor Port Status								
	Virtual COM List	Serial Server L	ist					
Ready								NUM

在網路上找到運行中的 Aport-31x

Server Yiew Exit Help Server Yiew Exit Help Server Name IP address Protocol Port COM name Status Aport-312 192.168.1.254 TCP 4000 Not mapped Not connected Virtual COM Virtual COM V	🛃 APort-31X Mai	ager						_ 🗆 🖂
Virtual COM Server name IP address Protocol Port COM name Status Aport-312 192.168.1.254 TCP 4000 Not mapped Not connected Virtual COM Server Server Not connected Not connected Virtual COM Image: Server Image: Server Image: Server Virtual COM Server Image: Server Image: Server Virtual COM Image: Server Image: Server Image: Server Virtual COM Virtual COM Image: Server Image: Server	<u>S</u> erver <u>V</u> iew <u>E</u> xit	<u>H</u> elp						
Image: Protocol Port COM mapped Status Aport-312 192.168.1254 TCP 4001 Not connected Mport-312 192.168.1254 TCP 4001 Not connected Virtual COM Configuration Not connected Not connected Not connected Upgrade Virtual COM Configuration Not connected Not connected Unintell Virtual COM Sature Second Se	?							
Virtual COM List Server List	Emerane Firmware Uppgade Virtual COM Configuration Searching Searching Virtual COM Uninctell Virtual COM	Server name Aport-312 Aport-312	IP address 192.168.1.254 192.168.1.254	Protecol TCP TCP	Port 4000 4001	COM name Not mapped Not mapped	Status Not connected Not connected	
Ready NITM	Ready	Virtual COM List	Serial Server List					NIIM

2.1.1. Broadcast Search

適用於內部網路(內部局網,LAN)尋找安裝的 Aport-31x,因爲是透過 UDP 傳輸的方式,所以 IP address 並不一定需要在同一網段中,但網路的硬體連接需在同一局網內,所謂的局網,就 是只與 PC 連結在同一個網路,不經過路由器(Router)或防火牆(Firewall).如:

- PC 透過 switch/hub 與 Aport-31x 的網路進行連接
- PC 利用 Cross-over Cable(交插線)直接與 Aport-31x 的網路進行連接

操作方法:

點選 Aport-31x Manager 左邊功能區中的 Searching Server,出現一個小對話框後,勾選下方 Searching all reachable servers

🛃 APort-31X Ma	nager						_ 🗆 🛛
Server ⊻iew Exit	t <u>H</u> elp						
?							
1	Server name	IP address	Protocol	Port	COM name	Status	
Firmware Upgrade							
			Search set	up			
Virtual COM Configuration			Search	a Specified Se	erver:		
			п	Address:			
Searching Server			🔽 Se	arch all reacl	nable servers.		
			[]	OK	Cance	1	
Uninstall Virtual COM							
<u> </u>							
Monitor Port Status							
ļ	Virtual COM List	t Serial Server List					
Ready							NUM

2.1.2. Search by IP

適用於針對特定已知 IP address 的 Aport-31x,以進行下一步驟測試

- 在同一局網中(LAN)有多台 Aport-31x,為簡化畫面,加速後續步驟
- PC 經過路由器或防火牆,透過 Internet(WAN)尋找遠端的 Aport-31x
- PC 是透過撥接上網,連入 Internet(WAN)尋找遠端的 Aport-31x

操作方法:

點選 Aport-31x Manager 左邊功能區中的 Searching Server,出現一個小對話框後,取消 勾選下方 Searching all reachable servers,並在中先 "Search Special Server"中輸入目標 Aport-31X IP address.

🛃 APort-31X Mar	ager						_ 🗆 🔀
Server ⊻iew Exit	<u>H</u> elp						
?							
t	Server name	IP address	Protocol	Port	COM name	Status	
Firmware Upgrade							
			S				
Virtual COM Configuration			Search a	erup			
			Sear	ch Specified (Server:		
Searching Server				IP Address:	168.103.5.43		
				Search all rea	chable servers.		
Uninstall Virtual COM			[OK	Can	cel	
<u></u>							
Monitor Port Status							
	Virtual COM List	Serial Server List					
Ready	· · · ·						NUM

- 2.1.3. 無法找到 Aport-31x 的可能原因
 - 確認 Aport-311 已正確的連接在網路上, Aport-31x 面板上的 Link 燈有亮
 - 確認 PC 已有取得合法的 IP
 - Aport-31x 是否取得合法的 IP,可透過 Serial Console,詳細請參考 Aport-31x 的操作手册.
 - 目標 Aport-31x 並非與 PC 在同一局網中,是透過 internet 連接,需透過 search by IP 的方式,且必需知道 Aport-31x 所用的 internet IP address.

2.2.Aport-31x 參數設定

2.2.1 進入設定書面

當透過 Search Servers 的功能找到網路上已運行的 Aport-31x 後,便可從此進入目標 Aport-31x 的設定畫面

● 滑鼠左鍵點選預進行設定的 Aport-31x 兩下

🛃 APort-31X Mai	nager						_ 🗆 🔀
<u>S</u> erver <u>¥</u> iew <u>E</u> xit	Help						
?				-			
1	Aport-312	192.168.1.254	TCP	Port 4000	COM name Not mapped	Not connected	
Firmware Upgrade	Aport-312	192.168.1.254	TCP	4001	Not mapped	Not connected	
Virtual COM Configuration							
Searching Server							
Uninstall Virtual COM							
Monitor Port Status							
	Virtual COM List	Serial Server List					
Ready	,						NUM
● 進7	、設定社	土菜單					
Server Proper	rties						
			hA	ila Electror	uics		
				APort-312			
Server name	Aport-312		Serial port:	1	-	Delimiter HEX	00
Serial numbe	r:		Baud rate:	19200	•	Delimiter HEX	00
Password	:		Data/Stop bits:	8-1	-	Force transmit:	0 x100ms
DHCF	Disable	-	Parity:	None	•	Port status:	Not Connected
IP address	192.168.1.	254	Flow control:	None	•	TCP/UDP port	t: 4000
Netmask	255.255.25	5.0	Protocol:	TCP	•	Serial port mode	RS232
Gateway	192.168.1.	254	Serial timeout:		0-65525 mg) Connection a	+
			NOTANA MILOU OL.		111211222238D	connection a	- FOWET IID -
MAC address	s: 00:0B:B4:8	81:00:63	TCP alive timeout:	0	(0-255 min)	Maximum connectio	

設定更新

Link status: 100/Full Dupley Hardware ID: PCB-2186-AS

C

Update

按下下方的[update]就可以使新的設定生效

此時可以系統需求,進行所有參數的配置,詳細部份,請參考 Aport-31x 英文版完整操作手冊說 明,常見的幾項參數設定

Cancel

- IP address:網路產品最基本的一項功能,需和安裝的網路搭配,需系統的 MIS 協助
- Protocol:網路傳輸的方式,共分 TCP Client, UDP 兩像項,需搭配 Connection mode 和 TCP/UDP port 兩個參數一起設定
- Serial Port Mode: Aport-31x 的第一個 port 是多複合功能,需透過此設定來決定第一個 Port 的功能

3. Com Port 設定安裝



Aport-31x 產品提供一個虛擬 COM port 的功能: "Virtual COM",讓 Aport-31x 上的 Serial Port 透過瀚達的 driver 轉換,變成 PC 上的標準 COM port (COM Mapping),這樣的一個功能 對原來就透過 COM Port 的應用軟體就可以不需修正,直接使用,網路的協議轉換,都已經 由瀚達的 driver 處理.

3.1.Install Virtual COM

點選[開始] [程式集] [Artila] [Install Virtual COM]

尋找要安裝 Virtual COM 的 Aport-31x
 會先出現一個尋找 Aport-31x 的小提示視窗,請參考第 2.1 章的說明,如果 Aport-31x 和
 PC 在同一個局網,就用"search all reachable server",如果是需透過 internet,就請於上方
 輸入目標 Aport-31x 的 IP address

Searching Aport-31x in LANS

Search setup	
Search Specified Server:	
IP Address:	_
🔽 Search all reachable servers.	
Cancel	

ound Server					
Server name	IP address	Protocol	Port	Flow control	COM name
Aport-312 Aport-312	192.168.1.254 192.168.1.254	TCP TCP	4000 4001	None None	Not mapped Not mapped
	Install			Close	

Searching Aport-31x in internet

Search setup	
Search Specified Server:	
IP Address: 59.12	0.100.1
🔲 Search all reachable	servers.]
OK	Cancel

und Server					
	1				
Server name	IP address	Protocol	Port	Flow control	COM name
Aport-312 Aport-312	59.120.100.1 59.120.100.1	TCP TCP	4000 4001	None None	Not mapped Not mapped
	Install			Close	

3.2. PC COM Port Mapping

因為 COM Port 要安裝到 PC 上是依據 Aport-31x 的 serial port 並非整台 Aport-31x,所以需 將要安裝的 COM port 逐一安裝到 PC 上.

● 透過滑鼠點選要安裝的 Aport-31x serial port,被選的 port 會出現反白

ldress 168.1.254 168.1.254	Protocol TCP TCP	Port 4000 4001	Flow control None None	COM name Not mapped Not mapped
168.1.254 168.1.254	TCP TCP	4000 4001	None None	Not mapped Not mapped
168.1.254	TCP	4001	None	Not manned

● 點選下方"Install"按鈕

此時所備點選的Aport-31x的基本設定及該port的基本參數都會顯示,此時最好再做一

次確認,確應是正確的參數

COMInst		
Map To:	•	Cancel
-Flow Control-		
• None	RTS/CTS 🔿 Xon/Xoff	
Protocol:	TCP	
IP Address:	192.168.1.254	
Port Number:	4000	

點選要將 Aport-31x 的 serial port 安裝(Mapping)到 PC 上的那一個 COM Port

COMInst	
Map To: COM11 💌	OK Cancel
-Flow Control	
Protocol: TCP 💌	
IP Address: 192.168.1.254	
Port Number: 4000	

● 開始安裝



and Server					
Server name	IP address	Protocol	Port	Flow control	COM name
Aport-312 Aport-312	192.168.1.254 192.168.1.254	TCP TCP	4000 4001	None None	COM11 Not mapped
	Install]		Close	

● 安裝完成

此時 PC 上的 COM 11 是 IP 192.168.1.254 的 Aport-311 的 port 1

3.3.測試

● 安裝確認

作業系統端:

確認 COM Port 已經被安裝在 PC 中,以 Windows 2000 及 Windows XP 爲例,可以由[裝置管理員] [連接埠] 中看到已安裝的 COM Port



Aport-31x 管理程式端

啓動 Aport-31x Manager,點選 Aport-31x manager 左方功能區中的 Virtual COM

Configuration



● 基本功能確認

透過"超級終端機"([開始][程式集][附屬應用程式][通訊][超級終端機])測試是否 COM Port 有確實安裝

案①	編輯(E)	檢視(7)	呼叫(C)	轉送(I)	說明(出)	ک تک
i i i	8	0 70	đ			
-						
					速線列 ② × 裂 d1	
					諸衛入要線動的電話號碼詳細資料: 國家(地區)(2): 中華民國 (85) ▼	
					画物(L): 2 電話就碼(E): (作用注意の): (C)((L)) (L)	
					COMPLEX COM I COM	

可成功的執行

۲	c11 -	超載	人終業	機				
檔	ξĐ	編輯	(E)	檢視(7)	呼叫(C)	轉送(<u>1</u>)	說明(II)	
	2	1	3	- D 🔁	đ			
	■斷連	凛 (Ê	動貨測	19200 8-1	R-1 80	ROLL CAIS NUM 顯 列印	
-			<			\checkmark		

• 設備連接測試

將設備確實連接於 Aport-31x 所設定的 serial port,並執行設備原來所附的管理程式,透過 COM port 進行設備監

3.4.變更已安裝 COM Port 的設定

如果因為 Aport-31x 或 PC 某一方的網路設定有變更,無需重新安裝 COM port,只需透過管 理程式做對應的修正

● 啓動設定變更工具 透過 Aport-31x Manager 工具中的[Virtual COM Configuration]

🛃 APort-31X Mar	ager						_ = 🛛
Server ⊻iew Exit	Help						
8							
1	COM name	IP address	Protocol	Port	Flow control	Status	
	COM11	192.168.2.254	TCP	4000	None	Not used	
Firmware Upgrade							
Virtual COM							
Configuration							
Searching Server							
Uninstall							
Virtual COM							
-							
Monitor Port Status							
	Virtual COM List	Serial Server List					
Ready	,						NUM

● 點選要變更設定的 COM Port

🛃 APort-31X Mai	ager					
Server View Exit	Help					
8						
1	COM name	IP address	Protocol	Port	Flow control	Status
	COM11	192.168.2.254	TCP	4000	None	Not used
Firmware Upgrade						
Virtual COM Configuration						
Searching Server						
Uninstall Virtual COM						
Monitor Port Status						
	Virtual COM Li	st Serial Server List				

Virtual COM Configuration	ı	×
Map To:	COM11 -	ОК
Flow Control:	None	Cancel
Protocol:	TCP	
IP Address:	192.168.1.254	
Port Number:	4000	

● 舉例,做 IP 變更

PC IP address 由 192.168.1.1 變為 192.168.2.1,所以要將 Aport-31x 的 IP 也變更為 192.168.2.x 的網段.



▶ 先變更 Aport-31x IP address

進入 Aport-31x Manager,依第 2 章說明,進行網路段設定對應的修正

🛃 APort-313	K Manager						_ 🗆 🔀
$\underline{\mathbb{S}} \texttt{erver} \underline{\underline{V}} \texttt{iew}$	<u>Exit</u> <u>H</u> elp						
8							
1 ,	Server name	IP address	Protocol Port	COM name	Status		
Firmware	Server Propertie	s					
Upgrade			Ar	tila Electronics			
				APort-312			
Virtual COM	Server name:	Aport-312	Serial port:	1 💌	Delimiter H	IEX 00	_
Configuration	Serial number:		Baud rate:	19200 💌	Delimiter H	IEX 00	_
	Password :		Data/Stop bits:	8-1 💌	Force trans	smit: 0 x100m	s
Searching	DHCP:	Disable	Parity:	None 💌	Port st	atus: Not Connected	_
KOLTOL	IP address:	192.168.2.254	Flow control:	None 💌	TCP/UDP	port: 4000	_
	Netmask:	255.255.255.0	Protocol:	TCP	Serial port n	node: RS232	-
Uninstall Virtual COM	Gateway:	192.168.2.254	a				_
	MAC address:	00.8B-E4.81.00:63	Serial timeout:	0 (0-6553	5 sec) Connecti	on at: Power up	*
<u> </u>	Version & Date:	1.7 & 11/21/05	TCP alive timeout:	0 (0-255)	nin) Maximum conne	ection: 1	-
Monitor Port Status	Link status:	100/Full Duplex	Connection mode:	Server	Remote IP add	.ress: 255.255.255.25	5
	Hardware ID:	PCB-2186-A5					
		Update			Cancel	1	
Ready		-					

▶ 變更 Virtual COM 的設定

進入 Aport-31x Manager [Virtual COM Configuration]

🛃 APort-31X Ma	nager						_ 🗆 🔀
Server ⊻iew Exit	Help						
¥		(m.))		0.011		1	
1	Server name	IP address	Protocol Port	COM name	Status		
Firmware Upgrade	¥irtual C	OM Configuratio	D				
Virtual COM Configuration		Map To:	COM11 💌		(OK		
Searching Server		Flow Control:	None 💌		Cancel		
		Protocol:	TCP 💌				
Uninstall Virtual COM		IP Address	192.168.2.254				
Status	-	Port Number:	4000				
Ready	,						NUM

3.5.移除 COM Port

- 3.5.1. 自 Aport-31x Manager 中移除
 - 進入 Aport-31x Manager,點選左方"Uninstall Virtual COM"

🛃 APort-31X Ma	nager						_ 🗆 🖂
Server ⊻iew Exit	Help						
8							
全	COM name	IP address	Protocol	Port	Flow control	Status	
Firmware Upgrade	COMIT	192.168.2.254	ICP	4000	None	Not used	
Virtual COM Configuration							
Searching Server							
Uninstall Virtual COM							
<u> </u>							
Monitor Port Status							
	Virtual COM List	Serial Server List					
Ready							NUM //

● 選取要移除的 COM Port

🛃 APort-31X Ma	anager						-	
Server ∐iew Exi	t <u>H</u> elp							
8								
2	COM name	IP address	Protocol	Port	Flow control	Status		
_	COM11	192.168.2.254	TCP	4000	None	Not used		
Firmware Upgrade								
Virtual COM								
Configuration								
Searching								
261461								
Hainstell								
Virtual COM								
Monitor Port								
Status	1							
	1							
		(a.) a						
	Virtual COM Lis	t Senai Server List						
Ready							NUM	1

● 點選左方功能區中的"Uninstall Virtual COM",移除已安裝 COM Port

vcomui	
⚠	Are you sure you want to uninstall COM11 ?
	<u>是(1)</u> 否(1)

APort-31X Ma	nager						
Server ⊻iew Exit	Help						
8							
ĉ	COM name	IP address	Protocol	Port	Flow control	Status	
Firmware Upgrade							
Virtual COM Configuration							
Searching Server							
Unmstall Virtual COM							
<u> </u>							
Monitor Port Status							
	Virtual COM List Se	rial Server List					
Ready							NUM //

● 自裝置管理原中,進行移除確認



- 3.5.2. 自裝置管理員中移除
 - 進入裝置管理員,點選[連接埠 (COM 和 LPT)]



 點選要移除的 Aport-31x 的 COM Port,選則功能表中的[執行]或按滑鼠右鍵,選取[解除 安裝]



● 點選確定,移除 COM Port



• 確認 COM Port 移除



3.6.無法開啓(Open)安裝的 COM Port

最長見的原因有二:

- 設定不相符
- 網路的設定有誤
- 3.6.1. 設定不相符

都可以自 Aport-31x Manager 中檢視設定

Virtual COM 的設定

∀irtual COM Configuration	1	
Map To:	COM11 💌	OK
Flow Control:	None	Cancel
Protocol:	TCP	
IP Address:	192.168.1.254	
Port Number:	4000	



Server Propertie	s:				X			
	Artila Electronics APort-312							
Server name:	Aport-312	Serial port:	1 -	Delimiter HEX	00			
Serial number:		Baud rate:	19200 💌	Delimiter HEX	00			
Password:		Data/Stop bits:	8-1	Force transmit:	0 x100ms			
DHCP:	Disable 💌	Parity:	None	Port status:	Not Connected			
IP address.	192.168.1.254	Flow control	None	TCP/UDP port:	4000			
Netmask.	255.255.255.0	Protocol	TCP	Serial port mode:	R\$232 -			
Gateway:	192.168.1.254	Sevial timesut						
MAC address:	00:0B:B4:81:00:63	TOP 1: 1: 1	0 0000000000000000000000000000000000000	:) Connection at:	Power up 💌			
Version & Date:	1.7 & 11/21/05	TCr anve mneout.	10 (0-255 mm)	Maximum connection.	1 •			
Link status:	100/Full Duplex	Connection mode:	Server	Remote IP address:	255.255.255.255			
Hardware ID:	PCB-2186-A5							
	Update			Cancel				

因為 Virtual COM 的設定是開始安裝後就固定在系統中,並非每次都會自 Aport-31x 讀 取新的設定值,因此當 Aport-31x 有進行設定變更或更換新的 Aport-31x 時,就有可能造成設並不相同的情況.

"Virtual COM Configuration"需要注意最基本的 4 項設定,只要其中有一項與 Aport-31x 的設定不符合,COM Port 便無法正常工作.

當 COM Port 無法正常運作時,務必確認此 4 項參數

3.6.2. 網路的設定有誤

修正此問題,請務必請系統網管人員提供正確的 IP address 設定値

因爲安裝"Virtual COM"的第一個步驟是透過網路先找到 Aport-31x

Search setup 🛛 🔀	Search setup
Search Specified Server:	Search Specified Server:
IP Address:	IP Address: 59.120.100.1
🔽 Search all reachable servers.	Search all reachable servers.
Cancel	OK Cancel

一個是透過 broadcast,另一個是透過直接指定 IP 的方式,兩者在安裝時都可以由網路找到 Aport-31x 但在實際使用時,PC 卻可能會無法連上 Aport-31x,主要原因如下:

● 透過"Search all reachable servers"

因為找 Aport-31x 是透過 UDP broadcast,所以只要網路線有連到,都可以找到,但實際在 Virtual COM 運作時,是透過 TCP 的方式,因此需務必確定 PC 與 Aport-31x 的網路設定 是在同一個 IP 群組,可以用最簡單的方式判斷"ping"

例: PC 網路設定:

C:\WINDOWS\system32\cmd.exe	- 🗆 ×
C:\Documents and Settings\Alexander>ipconfig	▲
Windows IP Configuration	
Ethernet adapter 無線網路連線:	
Media State Media disconnected	
Ethernet adapter 區域連線:	
Connection-specific DNS Suffix : IP Address	
C:\Documents and Settings\Alexander>	
,	•

> Aport-31x 與 PC 的網路設定不相同群組時

Server Propertie	s				X			
	Artila Electronics							
	Aroitoiz							
Server name:	Aport-312	Serial port:	1	Delimiter HEX	00			
Serial number:		Baud rate:	19200 💌	Delimiter HEX	00			
Password:		Data/Stop bits:	8-1 💌	Force transmit:	0 x100ms			
DHCP:	Disable 💌	Parity:	None 💌	Port status:	Not Connected			
IP address:	192.168.1.254	Flow control:	None 💌	TCP/UDP port:	4000			
Netmask:	255.255.255.0	Protocol:	TCP	Serial port mode:	R\$232 -			
Gateway.	192.168.1.254	Caulal time auto						
MAC addres	00:0B:B4:81:00:63	Senar mileour.	0 (0-6553)	o sec) Connection at:	Power up 🔽			
Version & Date:	1 7 & 11/21/05	CP alive timeout:	0 (0-255 r	nin) Maximum connection:	1 💌			
Link status:	100/Full Duplex	Connection mode:	Server 💌	Remote IP address:	255.255.255.255			
Hardware ID:	PCB-2186-A5							
	Update			Cancel				

於 PC 執行"ping" command 確認 PC 與 APor-31x 無法連通



▶ 透過 Aport-31xManager 修正 Aport-31x 的設定,IP address 需請系統網管人員提供

Server Propertie	\$				×			
Artila Electronics								
	APort-312							
Server name:	Aport-312	Serial port:	1 💌	Delimiter HEX	00			
Serial number:		Baud rate:	19200 💌	Delimiter HEX	00			
Password:		Data/Stop bits:	8-1 💌	Force transmit:	0 x100ms			
DHCP:	Disable 💌	Parity:	None 💌	Port status:	Not Connected			
IP address	192.168.2.254	Flow control:	None 💌	TCP/UDP port:	4000			
Netnask:	255.255.255.0	Protocol:	TCP 💌	Serial port mode:	R\$232 💌			
Gate vay:	192.168.2.254	Service to first service						
MAC address.	00:0B:B4:81:00:62	Senai mileoui.	0 (0-6553)	5 sec) Connection at:	Power up 💌			
Version & Date:	1.7.8.11/21/05	TCP alive timeout:	0 (0-255 r	nin) Maximum connection:	1 💌			
Link status:	100/Full Duplex	Connection mode:	Server 💌	Remote IP address:	255.255.255.255			
Hardware ID:	PCB-2186-A5							
	Update			Cancel				

確定 PC 與 Aport-31x 的網路設定已經完成



 Virtual COM 做對應的修正 進入"Virtual COM Configuration"

APort-31X Ma	anager	_ 🗆 🔀
Server ⊻iew Exi	а Цевр	
?	COMment [Reddman Bestood Deet [Remarked] States	
τ	COM11 192.168.1.254 TCP 4000 None Not used	
Finnware Upgrade		
2222		
Virtual COM		
Comiguouon		
Searching		
Server		
Uninstall Virtual COM		
Monitor Port		
Status		
Ready	<u>Virtual COM List</u> Server List	NUM
Virtual C	OM Configuration 🛛 🔀	
	Cancel	
	Flow Control: None	
	Protocol: TCP 💌	
	IP #ddmess: 192 168 2 254	
	11 1101103.	
	Port Number: 4000	
🔀 APort-31X Ma	inager	×
Server ⊻iew Exi ?	1 Help	
• •	COM name IP address Protocol Port Flow control Status	
Finnware	COM11 192.168.2.254 TCP 4000 None Not used	
Upgrade		
vntual COM Configuration		
Searching Server		
Ininstall		
Virtual COM		
Monitor Port Status		
	Virtual COM List Servier List	
Ready		NUM

透過"Search Specified Server"
 因為此時找 Aport-31x 是透過特定 IP,並採用 TCP 的方式,如果 internet 遠端 Aport-31x
 的 IP 改變,此時 Virtual COM 也需做對應的改變.

例: Aport-31x 於 Virtual COM 原先設定的 IP address

🥵 APort-31X Ma	nager						
<u>S</u> erver <u>V</u> iew <u>E</u> xit	<u>H</u> elp						
?							
1	COM name	IP address	Protocol	Port	Flow control	Status	
E	COM11	59.120.193.12	TCP	4000	None	Not used	
Upgrade							
Virtual COM Configuration							
Contiguation							
Searching							
Server							
Ilminstall							
Virtual COM							
Monitor Port							

PC 無法連上 Aport-31x



▶ 確認目前 IP 並重新設定 Virtual COM
 Aport-31x 目前的 IP (由系統網管人員提供)

🛃 APort-31X Mai	ager						_ 🗆 🔀
Server ⊻iew Exit	Help						
?							
1	Server name	IP address	Protocol Port	COM name	Status		
Firmware Upgrade	A Server Proper	ties		Not manned	Not connected		
			1	artila Electronics APort-312			
Virtual COM	Server name:	Aport-312	Serial port	1 💌	Delimiter HEX	00	
Configuration	Serial number		Baud rate:	19200 💌	Delimiter HEX	00	
	DHCP	Divid-	Data/Stop Dits: Parity:	8-1	Porce transmit: Port status:	0 x100ms	
Searching Server	IP address:	59.120.100.1	Flow control	None •	TCP/UDP port	4000	
	Netmask:	255.255.255.0	Protocol:	TCP	Serial port mode:	R\$232 -	
Uninstall	Gateway.	59.120.100.254	Serial timeout:	0 (0-65535 :	sec) Connection at:	Power un 👻	
V ITUAI COM	Version & Date	UU:UB:B4:81:UU:63	TCP alive timeout	0 (0-255 mi	n) Maximum connection:	1 -	
	Link status	100/Full Duplex	Connection mode	Server 💌	Remote IP address:	255.255.255.255	
Monitor Port Status	Hardware ID	: PCB-2186-A5					
		Update			Cancel		
	Virtual COM List	Serial Server List					
Ready							NUM



修正 Virtual COM 的設定

Virtual COM Configuration	L	
Map To:	COM11 💌	OK
Flow Control:	None	Cancel
Protocol:	TCP	
IP Address	59.120.100.1	
Port Number:	4000	

🛃 APort-312	(Ma	nager					_ 🗆 🔀
Server View	<u>E</u> xit	Help					
8							
1		COM name	IP address	Protocol	Port	Flow control	Status
		COM11	59.120.100.1	TCP	4000	None	Not used
Firmware Upgrade							
Virtual COM Configuration							
	≡						
Searching Server							
Uninstall Virtual COM							
<u> </u>		<					
Monitor Port	*	Virtual COM List	E Serial Server List				
Ready							NUM

4. Firmware Upgrade

4.1. 透過 Utility 找到 APort-31x

🛃 APort-31X Ma	nager						- 🗆 🗙
Server <u>V</u> iew <u>E</u> xit	<u>H</u> elp						
?							
1	Server nome	IF address	Protocol	Port	COM name	Status	
Firmware Upgrade	Aport-311	192.108.1.211	ICP	4000	Not mapped	Not connected.	
Virtual COM Configuration			找到	目標			
			Aport	-311			
Searching Server							
Injustall							
Virtual COM							
<u> </u>	1						
Monitor Port Status							
	Virtual COM List	Serial Server List					
Ready	, , , , , , , , , , , , , , , , , , , ,					NU	M _//

4.2.查看 Aport-31x 基本設定

🛃 APort-31X Mai	nager					_	
<u>S</u> erver <u>V</u> iew <u>E</u> xit	<u>H</u> elp						
?							
1	Server name	IP address	Protocol	Port	COM name	Status	
Firmware Upgrade Wirtual COM Configuration Searching Server Uninstall Wirtual COM	Aport-311	點選兩 現設定畫	下,進出 直	4000	Not mapped	Not connected	
	Virtual COM List	Serial Server List					
Ready						NUM	

		A	1. T1		
		An	na Electronics APort-311		
Server name:	Aport-311	Serial port:	1	Delimiter HEX	00
Serial number:	1101000172	Baud rate:	38400 💌	Delimiter HEX	00
Password:		Data/Stop bits:	8-1	Force transmit:	0 x100ms
DHCP:	Disable 💌	Parity:	None	Port status:	Not Connected
IP address:	192.168.1.211	Flow control:	None 💌	TCP/UDP port:	4000
Netmask:	255.255.255.0	Protocol:	TCP	Serial port mode:	R\$232 -
Gateway: MAC address:	192.168.2.254 00:0B:B4:81:03:BC	Serial timeout:	20 (0-65535	sec) Connection at:	Power up
ersion & Date:	1.7 & 11/30/06	ICP alive timeout:	0 (U-255 m	m) Maximum connection:	1 •
Link status:	100/Full Duples	Connection mode:	Server	Remote Ir address:	255.255.255.255
Hardware ID:	PP-1001-A1				
	Update			Cancel	

4.3. 變更 serial port 1 的模式

Server Propertie	2:				×
		hA	tila Electronics APort-311		
Server name:	Aport-311	Serial port:	1 🔻	Delimiter HEX	00
Serial number:	1101000172	Baud rate:	38400 💌	Delimiter HEX	00
Password:		Data/Stop bits:	8-1 💌	Force transmit:	0 x100ms
DHCP:	Disable 💌	Parity:	None 💌	Port status:	Not Connected
IP address:	192.168.1.211	Flow control:	None 💌	TCP/UDP port:	4000
Netmask:	255.255.255.0	Protocol:	TCP 💌	Serial port mode:	Upgrade 🔹
Gateway:	192.168.2.254			(RS232
MAC address:	00:0B:B4:81:03:BC	Senal timeout:	20 (0-6553.	5 sec) Connection at:	RS485H
Version & Date:	1.7 & 11/30/06	ICP alive timeout:	0 (U-255 r	nın) Maxımum connection:	Upgrade 🗸
Link status:	100/Full Duplex	Connection mode:	Server	Remote IF address:	255.255.255.255
Hardware ID:	PP-1001 A1				\smile
	Update	\supset		Cancel	
1					
	點選 upda	te 讓			
	變更生效				

重新尋找後,再進入確認是否有變更爲 upgrade mode

Server Propertie	s				×					
	Artila Electronics APort-311									
Server name:	Aport-311	Serial port:	1	▼ Delimiter HEX	00					
Serial number:	1101000172	Baud rate:	38400	 Delimiter HEX 	00					
Password:		Data/Stop bits:	8-1	 Force transmit: 	0 x100ms					
DHCP:	Disable 💌	Parity:	None	 Port status: 	Not Connected					
IP address:	192.168.1.211	Flow control:	None	 TCP/UDP port: 	4000					
Netmask:	255.255.255.0	Protocol:	TCP	 Serial port mode: 	Upgrade 🗾 🚽					
Gateway: MAC address:	192.168.2.254	Serial timeout:	20 (0-65	535 sec) Connection at:	Power up 💌					
Version & Date:	1.7.8.11/30/06	TCP alive timeout:	0 (0-25	5 min) Maximum connection:	1 🔻					
Link status:	100/Full Duplex	Connection mode:	Server	 Remote IP address: 	255.255.255.255					
Hardware ID:	PP-1001-A1									
	Update			Cancel						

4.4.進行 firmware 升級

- 4.4.1. 透過 RS-232 Serial Port 1 升級
 - ▶ 需透過 RS-232 Cable 將 Aport-31x oprt 1 與 PC COM Port 相連
- 4.4.2. 透過網路進行升級
 - ▶ 安裝先將 Aport-31x port 1 安裝 Virtual COM

For	and Server					
	Server name	IP address	Protocol	Port	Flow control	COM name
	Aport-311	192.168.1.211	TCP	4000	None	COM5
	, 	Install			Close	

4.5. 回主畫面, 點選[Firmware Upgrade],開始升級

🛃 APort-31X Ma	nager					_ D	X
<u>S</u> erver <u>V</u> iew <u>E</u> xit	<u>H</u> elp						
8							
	Server name	IP address	Protocol	Port	COM name	Status	
	Aport-311	192.168.1.211	TCP	4000	COM5	Not connected	
Piinnware Upgrade							
Virtual COM Configuration							
_							
Searching							
561761							
Uninstall							
Virtual COM							
Monitor Port							
Status							
	Virtual COM List	Serial Server List					-
Ready	,					NUM	

Upgrade					
		Upgrade firm	nware thro	ough serial COM port	
HEX F	ile :				Browse
Serial Po	ort :	COM1	•		
				(Upgrade)	Cancel

輸入新的 firmware 的檔案完整位置及透過的 COM port No



- 4.6. 按下[Upgrade]開始升級
 - ▶ 如透過 Serial Port 1 升級,需注意 RS-232 的參數是否與 Aport-31x port 1 設定相同

Upgrad	le			

- 4.7. 升級完成, Aport-31x Manager 會重新再次搜尋 Aport-31x
- 4.8. 將 Aport-31x 設定變更回運作模式(RS-232, RS-422, RS-485)

Server Propertie	s						
		An	tila Electro: APort-311	nics			
Server name:	Aport-311	Serial port:	1	-	Delimiter HEX	00	-
Serial number:	1101000172	Baud rate:	38400	-	Delimiter HEX	00	-
Password:		Data/Stop bits:	8-1	•	Force transmit:	0 x100ms	
DHCP:	Disable 💌	Parity:	None	•	Port status:	Not Connected	-
IP address:	192.168.1.215	Flow control:	None	-	TCP/UDP port:	4000	
Netmask:	255.255.255.0	Protocol:	TCP	-	Serial port mode.	RS232 -	
Gateway: MAC address: Version & Date: Link status:	192.168.2.254 00:0B:B4:81:03:BC 1.7.1 & 07/13/07 100/Full Duplex	Serial timeout: TCP alive timeout: Connection mode:	20 0 Server	(0-65535 (0-255 m	sec) Connection at: in) Maximum connection: Remote IP address:	RS232 RS422 RS485H Console Upgrade 255,255,255,255	
Hardware ID:	PP-1001-A1						
	Update	\rightarrow			Cancel		

- 4.8.1. 重新進入設定,確認升級
 - ➤ 確認 firmware 版本
 - ▶ 確認是否已經將 Serial Port 1 模式變更回 RS-232, RS-422 or RS-485 mode

erver Propertie	es						
		Ar	tila Electronics				
			AFOIESTI				
Server name:	Aport-311	Serial port:	1	•	Delimiter HEX	00	
Serial number:	1101000172	Baud rate:	38400	-	Delimiter HEX	00	
Password:		Data/Stop bits:	8-1	-	Force transmit:	0 x100ms	
DHCP:	Disable 💌	Parity:	None	-	Port status:	Not Connected	
IP address:	192.168.1.215	Flow control:	None	•	TCP/UDP port:	4000	
Netmask:	255.255.255.0	Protocol:	TCP	•	Serial port mode:	R\$232 💌	>
Gateway:	192.168.2.254						
MAC address:	00:0B:B4:81:03:BC	Serial timeout:	20 (0-6	55535 sec)	Connection at:	Power up 📃 💌	
Version & Date	11.7.1.0.07/12/07	TCP alive timeout:	0 (0-2	255 min) N	deximum connection:	1	
Link status:	1.7.1 & 07/15/07 199/Full Dupley	Connection mode:	Server	•	Remote IP address:	255.255.255.255	
Hardware ID:	PP-1001-A1						
	·····				<u> </u>	1	
	Update			_	Cancel		