Moxa NPort 简易安装测试向导—TCP Client

第一部分:安装

1、将 NPort 连接到局域网,并打开电源;

2、从光盘上安装 NPort 5000 Series 管理工具——NPort Search Utility.

如没有,请到以下网址下载:

http://www.moxa.com/drivers/DN Search Utility/nploc setup Ver1.13 Build 12021410.zip



3、安装完成后,打开 NPort Search Utility;

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字体		n. xit	<u>s</u> earch	🧟 Search	≚ ∐P Locate	<u> </u>	L sole Assign IP	Un-Loo	sk Upgrade	
	No	Δ	Model		LAN1 MAC Ad	ldress	LAN1 IP Address		LAN2 MAC Addr	ess

4、点"search"或从指定 IP"search ip"来搜索 NPort;

ile F <u>u</u> nc	tion <u>V</u> iew <u>H</u>	elp								
<u>I.</u> Exit	<u> </u>	2≙ Search <u>I</u> P	_ <u>₩</u> Locate	<u> </u>	L Assign IP	Un-Lock	E Upgrade			
	Model	LA	N1 MAC A	ddress LAN	11 IP Address		2 MAC Addres	s LAN2	2 IP Address	Status
Searchin	ng									X
For	arching for Mr o und 1 NPort(:	s), 9 secon	d(s) left.		1		□ Show IPvt	6 Address	 ✓ 	<u>S</u> top
Fo	arching for Nr o und 1 NPort(s lo Moc	 s), 9 secon	d(s) left.	11 MAC Address	s LAN1 IP	Address	Dow IPvi	5 Address Address	LAN2 IP Add	<u>S</u> top

注意: 在配置 NPort 时,请将主机 IP 与 NPort IP 在同一网段中;

NPort 默认 IP: 192.168.127.254;

5、选择相对应的 NPort 双击。

6、进入 web 配置界面,在"Basic"下对产品名称、日期等进行基本设置;

🔁 Main Menu	Basic Setting					
Basic Settings	Server name	NP5410_36				
📄 Network Settings		Time				
🗉 🧰 Serial Settings	Time zone	(GMT)Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London 👻				
Operating Settings Accessible IP Settings	Local time	2000 / 1 / 1 0 : 1 : 20 Modify				
Auto Warning Settings	Time server					
Change Password	, 	Settings				
Load Factory Default	Web console	Enable Disable Disable				
Save/Restart	Telnet console	Enable Disable Disable				
	LCM password protect	● No [©] Yes				
	Reset button protect	● No [©] Yes				
		Submit				

注意:在设置完各项后请单击"submit"提交设置。

7、在"Network"下对 IP 地址及其他的网络设置进行设置,

🔁 Main Menu	Network Settings					
🗀 Overview						
Basic Sottings	IP address	192.168.127.254				
Network Settings	Netmask	255. 255. 255. 0				
Serial Settings	Gateway					
Accessible IP Settings	IP configuration	Static 👻				
• 🗀 Auto Warning Settings	DNS server 1					
Monitor	DNS server 2					
Change Password	SNMP Setting					
Save/Restart	SNMP	💿 Enable 🔘 Disable				
_ ,	Community name	public				
	Contact					
	Location					
		IP Ac	ldress report			
	Auto report to IP					
	Auto report to UDP port	4002				
	Auto report period	¹⁰ seconds				
			Submit			
			D GOME C			

8、在"Serial"下可对各个端口进行基本设置,如波特率、数据位、校验位、停止位,流控 方式(如果您没有使用流控,请将 Flow contral 选为 none)

🔄 Main Menu	Serial Settings	
🗀 Overview		
Basic Settings		TOLOT
Network Settings	Port alias	
🖳 Serial Settings		Serial Parameters
Port 1	Baud rate	115200 -
Port 2	Data bits	8 🗸
Port 4	Stop bits	1 💌
🗉 🧰 Operating Settings	Parity	None 👻
🗀 Accessible IP Settings	Flow control	RTS/CTS -
🗄 📃 Auto Warning Settings	FIFO	🖲 Enable 🔘 Disable
🗄 🦲 Monitor	Interface	RS-232 Only
Change Password	Apply the above settings to all serial ports	
Load Factory Default		
Save/Restart		Submit

可以在以下位置更改接口界面,选择 232 或者 422 或者 2w-485 或者 4w-485

Main Menu	Serial Settings	
🗀 Overview		
🗀 Basic Settings		Port 02
Network Settings	Port alias	
🕤 Serial Settings		Serial Parameters
Port 1	Baud rate	115200 -
Port 2	Data bits	8 🗸
Operating Settings Accessible IP Settings	Stop bits	1 •
Auto Warning Settings	Parity	None 🔻
🗀 Monitor	Flow control	RTS/CTS 👻
Change Password	FIFO	Enable O Disable
🔲 Load Factory Default	Interface	RS-485 2-Wire -
🗀 Save/Restart	Apply the above settings to all serial ports	RS-422 RS-485 2-Wire
		RS-485 4-Wire

或者

a main menu **Communication Parameters** 🗀 Overview Basic Settings Port 1 🗀 Network Settings Port alias 💼 Serial Port Settings Serial Parameters 🖹 🔄 Port 1 🗀 Operation Modes Baud rate [Hint] 115200 -Communication Para Data bits 8 -💼 Data Buffering/Log Stop bits 1 Ŧ 🗀 Modem Settings Parity None 🔻 🗀 Cipher Settings Flow control RTS/CTS -🖻 🧰 Port 2 FIFO 🖲 Enable 🔘 Disable 🗉 📄 Port 3 Interface RS-485 2-wire 💌 🗄 🧰 Port 4 RS-232 🔲 P2 📄 Welcome Message RS-422 Apply the above settings to 🕒 System Management RS-485 4-wire 🖳 System Monitoring 🗀 Save Configuration

verview		
asic Settings		Port 1
etwork Settings	Operation mode	TCP Client Mode 🗸
erial Settings	TCP alive check time	7 (0 - 99 min)
perating Settings Port 1	Inactivity time	0 (0 - 65535 ms)
cessible IP Settings	Ignore jammed IP	No
to Warning Settings		Data Packing
onitor	Packing length	0 (0 - 1024)
hange Password	Delimiter 1	0 (Hex) 🗆 Enable
ad Factory Default	Delimiter 2	0 (Hex) 🗆 Enable
	Delimiter process	Do Nothing

10、选择"TCP Client"模式,然后设定目标(主机)IP 地址以及端口号,然后点击 submit,以及后续的 save&restart,重启。

settings	Force transmit	v (0 - 65535 ms)					
Settings		TCP Client Mode					
		Destingtion TD Address					
vord	Destination IP address 1	192.168.127.222 : 4005					
Jerault •	Destination IP address 2	: 4001					
	Destination IP address 3	: 4001					
	Destination IP address 4	: 4001					
	Designated Local Port 1	5011 (0 - 65535, 0 represents assigned automatically.)					
	Designated Local Port 2	5012 (0 - 65535)					
	Designated Local Port 3	5013 (0 - 65535)					
	Designated Local Port 4	5014 (0 - 65535)					
	Connection control	Startup/None (Connect on/Disconnect by)					
		Submit					
		🏹 浏览器医生					

第二部分:测试

1、使用环测线连接需要测试的端口,环测线做法如图所示。

将以下要打开的 2 个 COM 口环测,如果只使用一个 COM 口,打开一个既可。

2、安装 Pcomm, 下载地址

http://www.moxa.com/drivers/pcommlite/win2k/setup_pcommlite_1.6_12041917.zip



3、安装完成之后,打开 PComm Terminal Emulator。 然后点击左上角的

PC PC	PComm Terminal Emulator					
Prof	Pro <u>f</u> ile <u>P</u> ort Manager <u>H</u> elp					
-	🖬 🛃 🖻 📚 🖼 🚿 🖿 🐘 🔊 2 B HEX					

再选择 "Serial", 比如选择 COM7 (您手中的比如 USB 转串口之类设备的串口), 配置串口参数, 然后点击确定

Property			×		
Terminal	File Transfe Communication Par	er Captu rameter	ring		
Proto Serial Parame COM15 COM18 COM19	oco. Baud rate: Data bits: Parity: :op bits: ow control: ITS state: UTR state:	38400 User defined 8 None 1 RTS/CTS DTR/DSR DTR/DSR XON/XOFF ON OFF ON OFF			
Default		确定	取消		
COM7,38400,Nor	ne,8,1,Dumb Termin	nal		1	
DTR RTS					
State:OPEN	s DSR RI DCD Read	y		TX:0	RX:0

4,同样在操作一次(如3),点击左上角,打开一个新窗口.

在下来菜单中选择"TCP", 然后在 Type 中选择"server", 在下面的 Local port 输入之前 网页配置页面中的端口号"4005 (可以自己设定)"

Property		
Tern	ninal File Transfer Capturing Communication Parameter	
- TCP	Protocol TCP	
	Type: O Clien 🙃 Server	
	IP version: IPv4	
ost na	Dest. IP:	
	Local port: 0 (0 for	
Defaul	Lt 确定 取消	

点击确认后,会弹出来另一个窗口。 与之前的 COM7 形成 2 个窗口,可以相互收发数据。

PComm Terminal Emulator - TCP Client (192.168.127.225:4001) Dumb Terminal	1
Profile Edit Port Manager Window Help	
TCP Client (192.168.127.225:4001) Dumb Terminal	
	<u>^</u>
Status: Connect Ready TX:0	RX:0
	1 ///.

5,在其中任何一个窗口键盘输入任意字符,在两个窗口都正常显示出来,那么,测试成功。 注意: 在测试完成以后,直接中止命令即可。

附环测接线示意图:

如果是 232 一个串口回环测试,将同一个串口的针脚 2 和针脚 3 短接即可。

RS-232(两个串口之间做	RS-422(两个串口之间做	2线 RS-485 (两个串口	4线 RS-485(两个串口之
回环)	回环)	之间做回环)	间做回环)
TxD TxD RxD RxD RTS RTS CTS CTS DSR DSR DTR GND DCD DCD	TxD+(B) RxD+(B) TxD-(A) RxD-(A) RxD+(B) TxD+(B) RxD-(A) TxD-(A) GND GND	Data+(B) — Data+(B) Data-(A) — Data-(A) GND — GND	TxD+(B) RxD+(B) TxD-(A) RxD-(A) RxD+(B) TxD+(B) RxD+(B) TxD+(B) RxD-(A) TxD+(B) GND GND

DB9 Male RS-422/485 Port Pinouts for NPort 5150

Pin	RS-232	RS-422/4-wire RS-485	2-wire RS-485
1	DCD	TxD-(A)	
2	RxD	TxD+(B)	
3	TxD	RxD+(B)	Data+(B)
4	DTR	RxD-(A)	Data-(A)
5	GND	GND	GND
6	DSR		
7	RTS		
8	CTS		

