

MDNET网络转换器模块说明书

Ethernet to RS-232/RS-485 Converter
Auto-detecting 10/100Mbps Ethernet
Baud rate 4,800-115,200 bps



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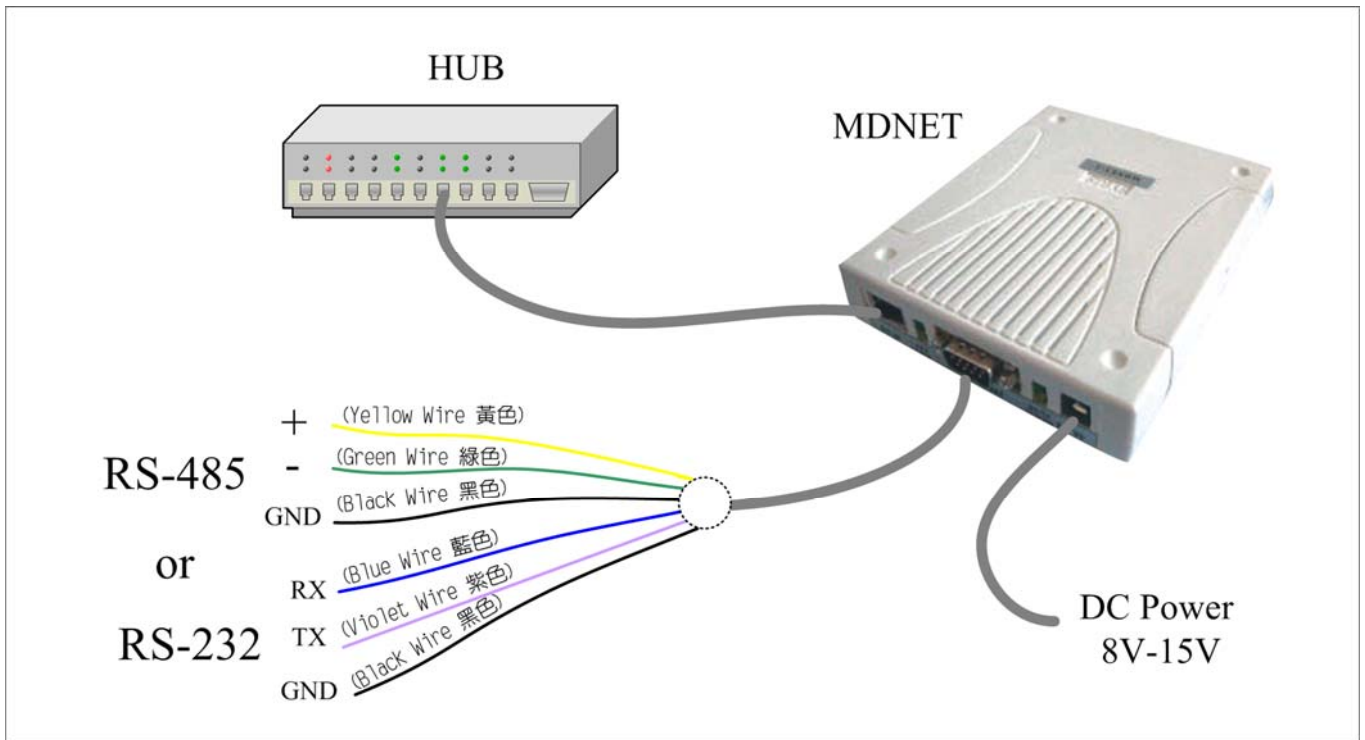
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MDNET WIRING DIAGRAM



DB9 Connect PIN define

PIN	Function	Note
1		No Connect
2	RS-232 RX	Blue (藍)
3	RS-232 TX	Violet (紫)
4	RS-232 DTR	Orange (橙) No Function
5	GND	Black (黑)
6	RS-232 DSR	Brown (棕) No Function
7	RS-485 +	Yellow (黃)
8	RS-485 -	Green (綠)
9	GND	Black (黑)

Set to Factory Default (SW1 Hold 5 Second)

IP = 192.168.1.101
 Gateway = 192.168.1.254
 Netmask = 255.255.255.0
 Baud Rate = 19200,E,8,1
 ID = 0001
 Start Delay Time = 1500
 End Delay Time = 500

MDNET规格:

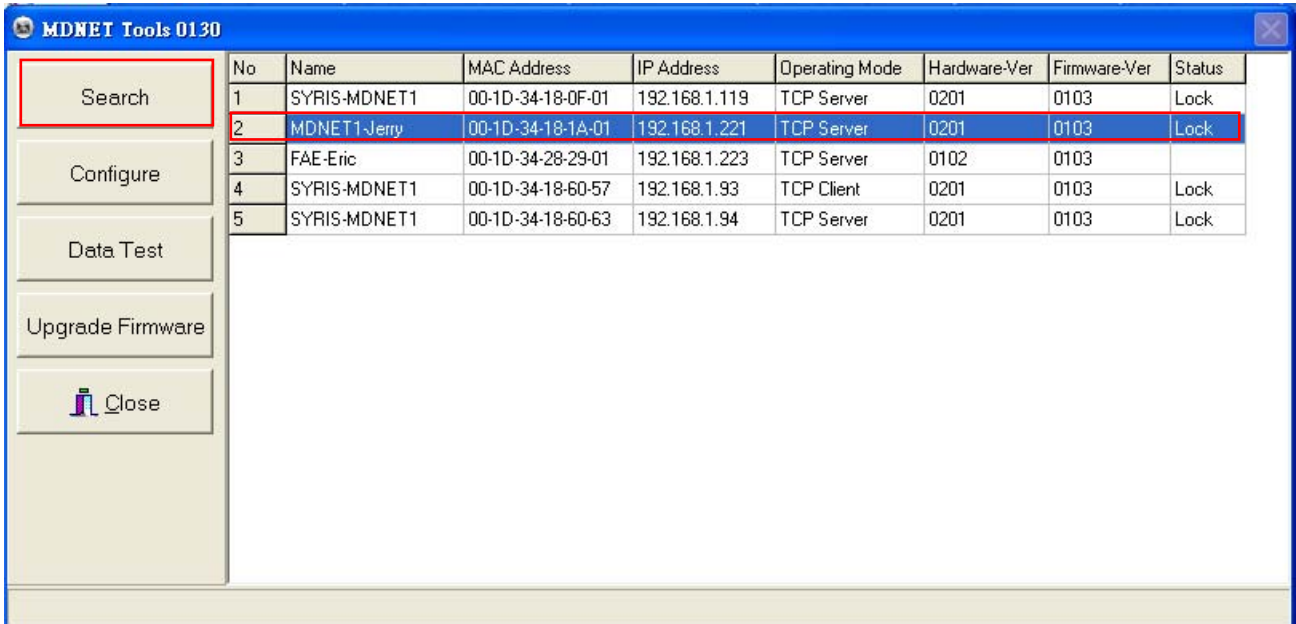
Items / Specs	MDNET-1	MDNET-95A	MDNET-1-A
局域网络	10BASE-T/100BASE-TX port, 10/100Mbps auto-sensing		
TP port	RJ-45 phone jack		
通讯协议	TCP Server/Client, UDP		
通信格式	RS-232 / RS-485 (Auto-detecting)		
连接串口	9 PIN D-SUB (RS-232 / RS-485)		
通信速度	19,200 bps (4,800、9,600、19,200、38,400、57,600、115,200)		
Parity	None, Even, Odd		
Data bits / Stop bits	8 / 1		
配合软件	None	SYW95A-NET	YSOFT-95A-260
状态指示	4 LED (Power, RX/TX, Link, Active)		
颜色	Beige		
工作湿度	10% to 95% (Non-condensing)		
工作温度	-20°C to 70°C		
储存温度	-30°C to 80°C		
Magnetic isolation	1.5KV for Ethernet		
输入电压	8V to 15V DC		
网络供电模块	POE 模块(选购配件)		
尺寸(mm)	110W x 136H x 32.5D		

This specification is preliminary and is subject to change without prior notice.

MDNET 工具使用说明 (简体中文)

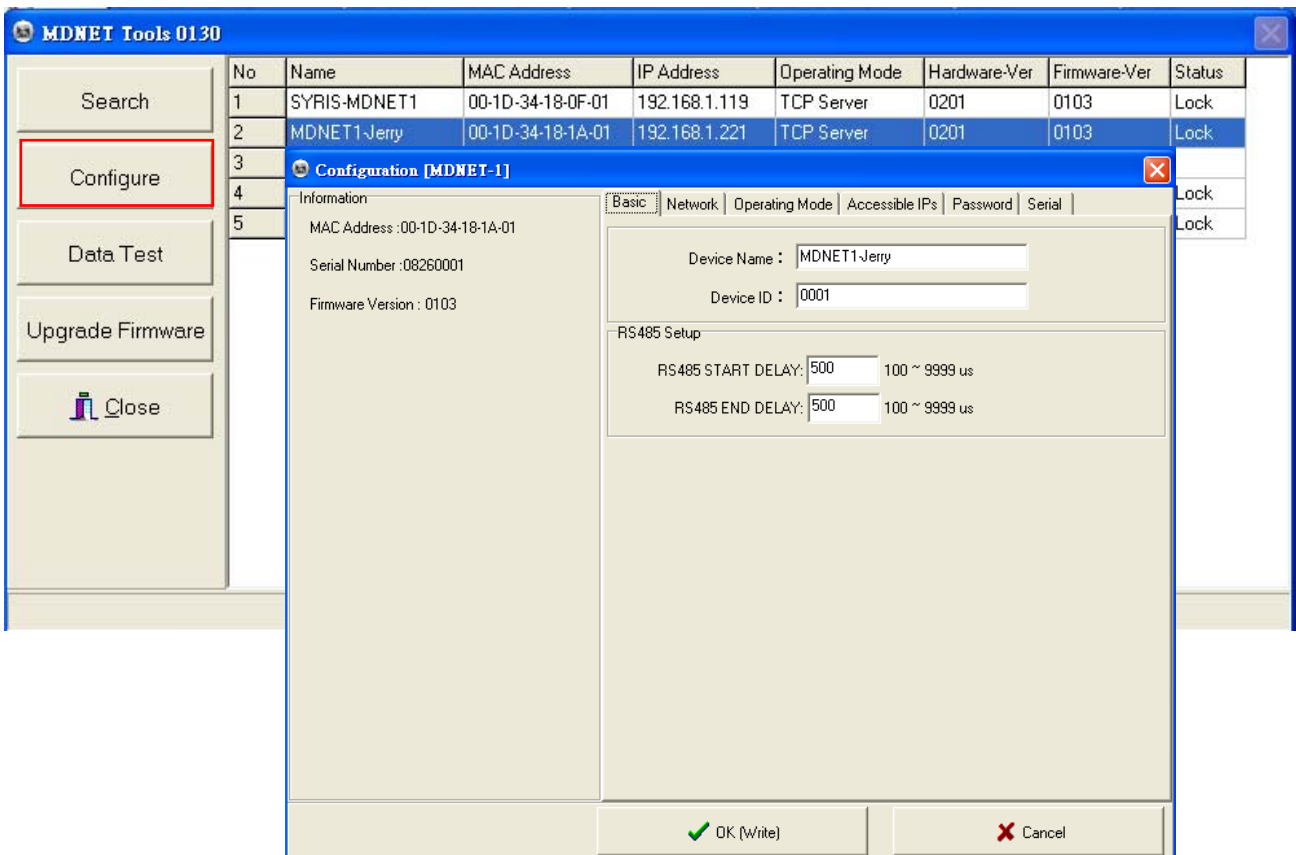
■ 连结装置

开启MDNET2_Tools后，点选 **Search** 搜寻装置数据。



■ Configure

双击装置数据行或是点选 **Configure** 进入控制模式。



■ Configuration-Basic

1. 于 **Device Name** 字段输入装置名称。
2. 于 **Device ID** 字段输入设定ID。
3. 于 **RS485 START DELAY** 字段输入设定延迟时间。
4. 于 **RS485 ENDT DELAY** 字段输入设定延迟时间。
5. 确认后点选 **OK(Write)** 写入。

The screenshot shows the 'Configuration [MDNET-1]' dialog box with the 'Basic' tab selected. The 'Device Name' field contains 'MDNET1-Jerry' and the 'Device ID' field contains '0001'. Under the 'RS485 Setup' section, the 'RS485 START DELAY' field is set to '500' and the 'RS485 END DELAY' field is also set to '500'. Both delay fields have a range of '100 ~ 9999 us'. At the bottom, there are two buttons: 'OK (Write)' with a green checkmark and 'Cancel' with a red X.

■ Configuration-Network

选择 **DHCP** 或是设定 IP相关信息

The screenshot shows the 'Configuration [MDNET-1]' dialog box with the 'Network' tab selected. The 'DHCP' checkbox is unchecked. Under the 'Static IP' section, the following fields are filled: 'IP Address' (192, 168, 1, 221), 'Netmask Address' (255, 255, 255, 0), 'Gateway Address' (192, 168, 1, 254), 'DNS Server1' (0, 0, 0, 0), and 'DNS Server2' (0, 0, 0, 0). At the bottom, there are two buttons: 'OK (Write)' with a green checkmark and 'Cancel' with a red X.

■ Configuration-Operating Mode

- 1. TCP Server Mode:** 设定Local Port, Max Connection可达4。
- 2. TCP Client Mode:** 可设定Any Character或Star up模式, 最多可设定四组IP。
- 3. UDP Mod:** 设定Local Port, 最多可设定四组IP。
- 4. Data Packing:** 设定段落字符 (接收到某特定字符时, 将传出该字符前的讯息)
Force Tx Timeout: 如果迟迟未收到指定段落字符, 则在多久时间后送出讯息。
- 5. Miscellaneous:** TCP Alive Check Timeout—联机达到设定时间后即断线;
Inactivity Timeout—于设定时间内无数据传输(UART)即断线。

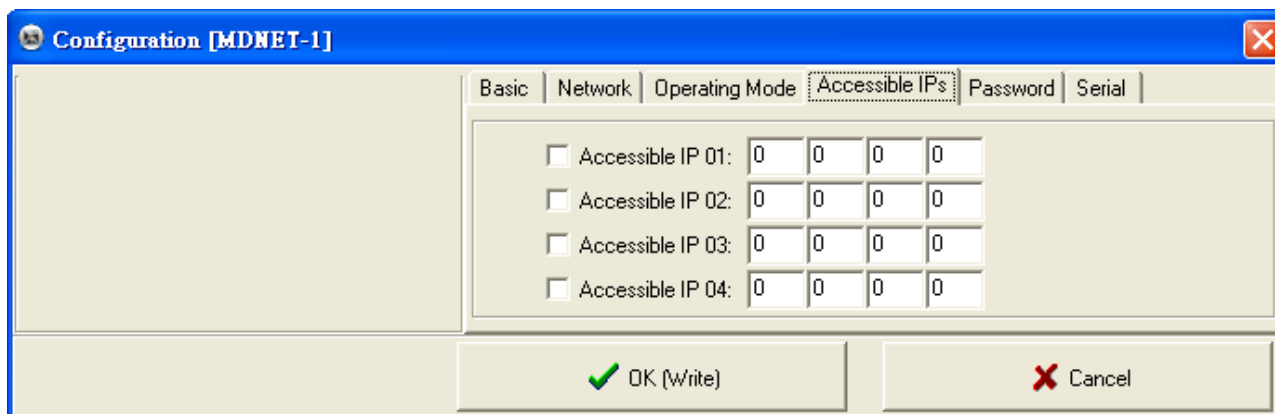
The screenshot shows the 'Configuration [MDNET-1]' window with the 'Operating Mode' tab selected. The left sidebar contains device information: MAC Address: 00-1D-34-18-30-02, Serial Number: 08480002, Firmware Version: 0104, and Hardware Version: 0201. The main area is divided into several sections:

- 1. TCP Server Mode:** Local Port: 5001, Max Connection: 1.
- 2. TCP Client Mode:** Connect Mode: Starup. Below are four 'Destination IP' fields, each with a checkbox and a port of 5001.
- 3. UDP Mode:** Local Port: 5001. Below are four 'Destination IP' fields, each with a checkbox and a port of 5001.
- 4. Data Packing(Optional):** Delimiter 1: 0D (0 - ff,Hex), Delimiter 2: 00 (0 - ff,Hex), Force Tx Timeout: 0 (0 - 65535 ms).
- 5. Miscellaneous(Optional):** TCP Alive Check Timeout: 0 (0 - 255 min), Inactivity Timeout: 0 (0 - 65535 ms).

At the bottom, there are 'OK (Write)' and 'Cancel' buttons.

■ Configuration-Accessible IPs

可设定四组拥有存取权限的IP。

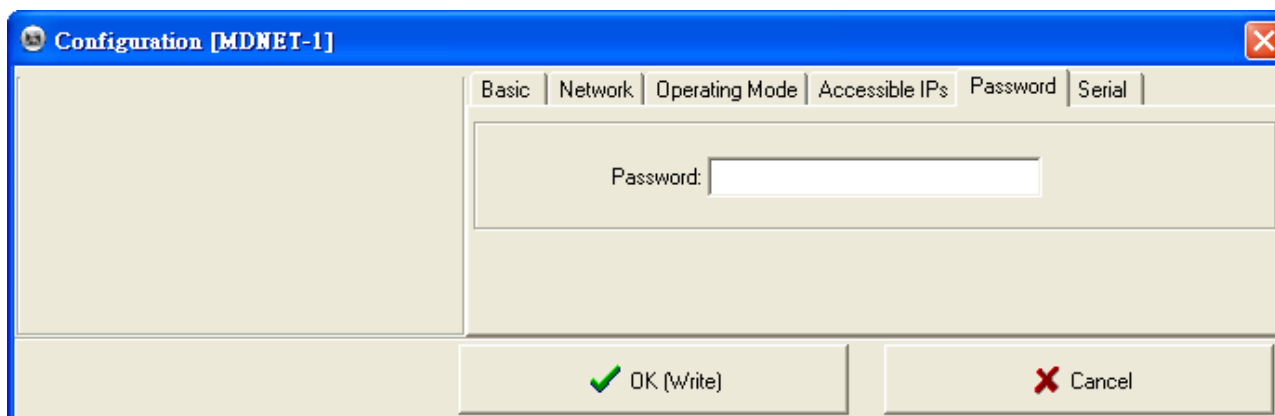


The screenshot shows the 'Configuration [MDNET-1]' dialog box with the 'Accessible IPs' tab selected. The dialog has a title bar with a close button. Below the title bar are tabs for 'Basic', 'Network', 'Operating Mode', 'Accessible IPs', 'Password', and 'Serial'. The 'Accessible IPs' tab contains four rows, each with a checkbox and four input fields for IP address octets. All checkboxes are unchecked and all input fields contain '0'. At the bottom are 'OK (Write)' and 'Cancel' buttons.

Accessible IP	Octet 1	Octet 2	Octet 3	Octet 4
<input type="checkbox"/> Accessible IP 01:	0	0	0	0
<input type="checkbox"/> Accessible IP 02:	0	0	0	0
<input type="checkbox"/> Accessible IP 03:	0	0	0	0
<input type="checkbox"/> Accessible IP 04:	0	0	0	0

■ Configuration-Password

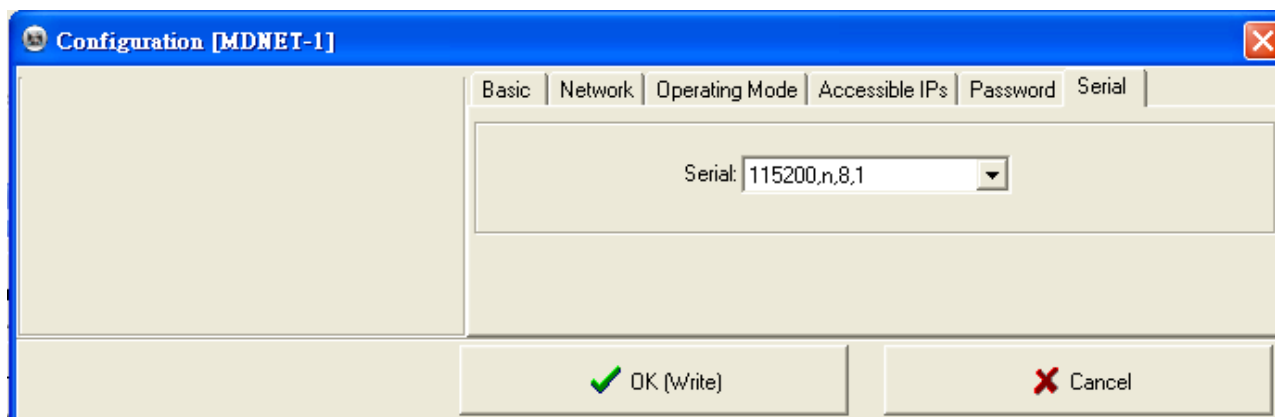
设定进入控制模式时候的密码。



The screenshot shows the 'Configuration [MDNET-1]' dialog box with the 'Password' tab selected. The dialog has a title bar with a close button. Below the title bar are tabs for 'Basic', 'Network', 'Operating Mode', 'Accessible IPs', 'Password', and 'Serial'. The 'Password' tab contains a 'Password:' label followed by a text input field. At the bottom are 'OK (Write)' and 'Cancel' buttons.

■ Configuration-Serial

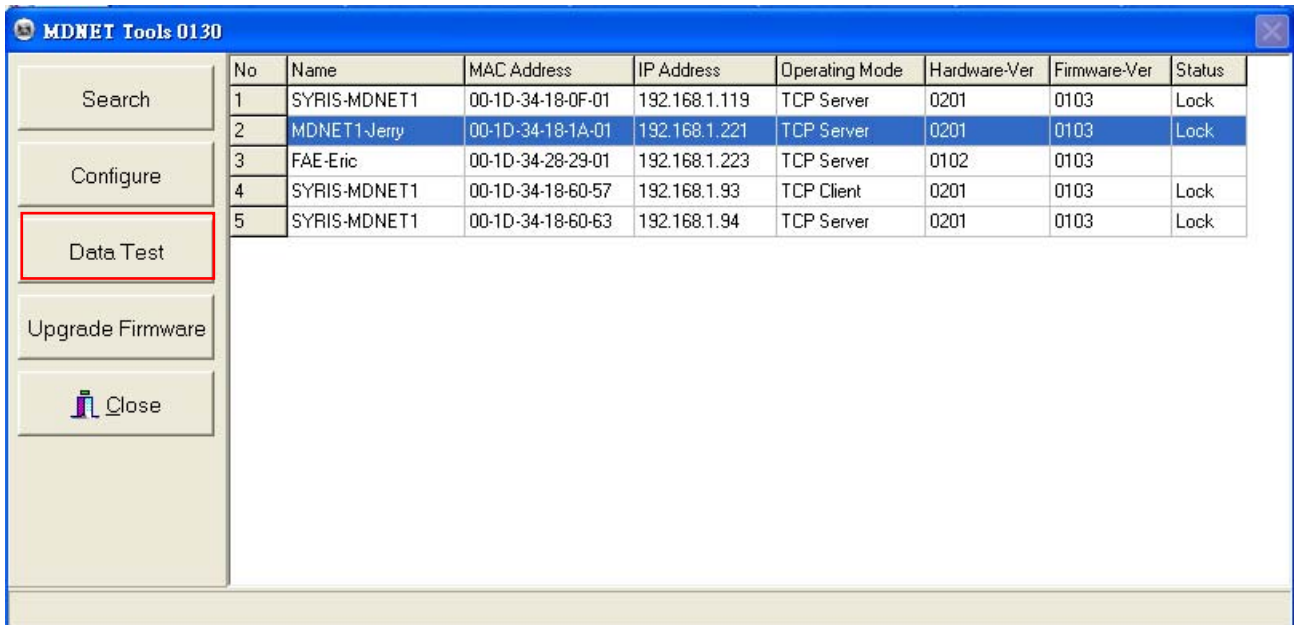
设定速率。



The screenshot shows the 'Configuration [MDNET-1]' dialog box with the 'Serial' tab selected. The dialog has a title bar with a close button. Below the title bar are tabs for 'Basic', 'Network', 'Operating Mode', 'Accessible IPs', 'Password', and 'Serial'. The 'Serial' tab contains a 'Serial:' label followed by a dropdown menu showing '115200,n,8,1'. At the bottom are 'OK (Write)' and 'Cancel' buttons.

■ Data Test

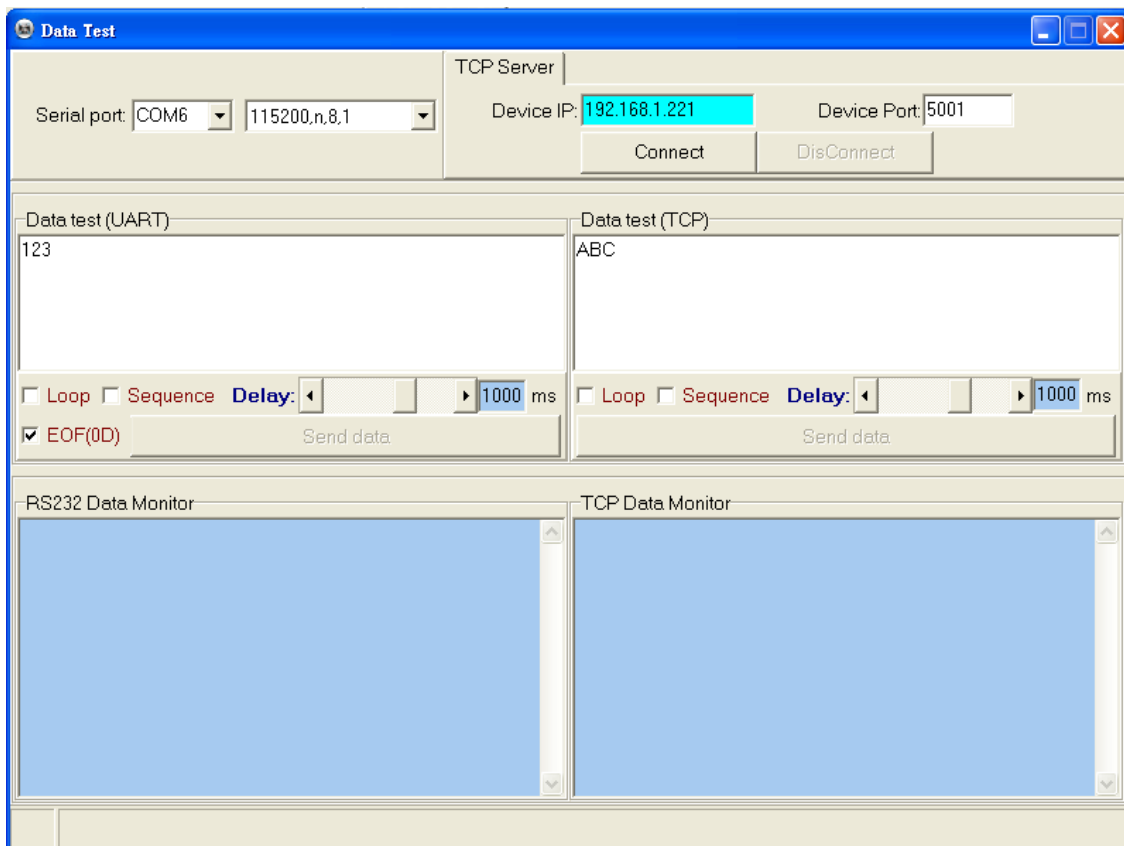
点选 **Data Test** 开启数据传输测试。



设定与欲联机的Port与速率，点选 **Connect** 联机装置。

点选 **Loop** 可连续传送讯息，于Delay部分设定时间。

点选 **Sequence** 则会在传送的讯息前加上序号。



■ Upgrade Firmware: 更新韌體

