

# 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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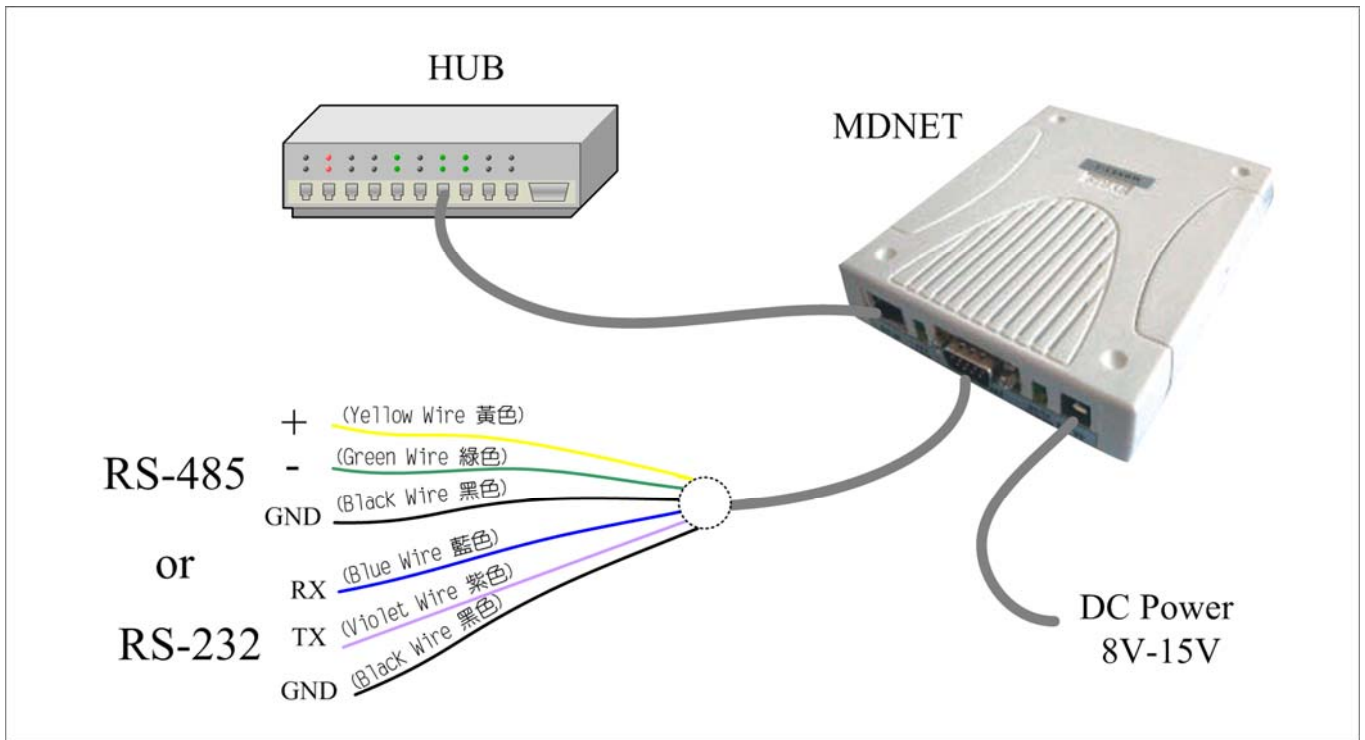
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December 22, 2008 Ver:2.21

# 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:

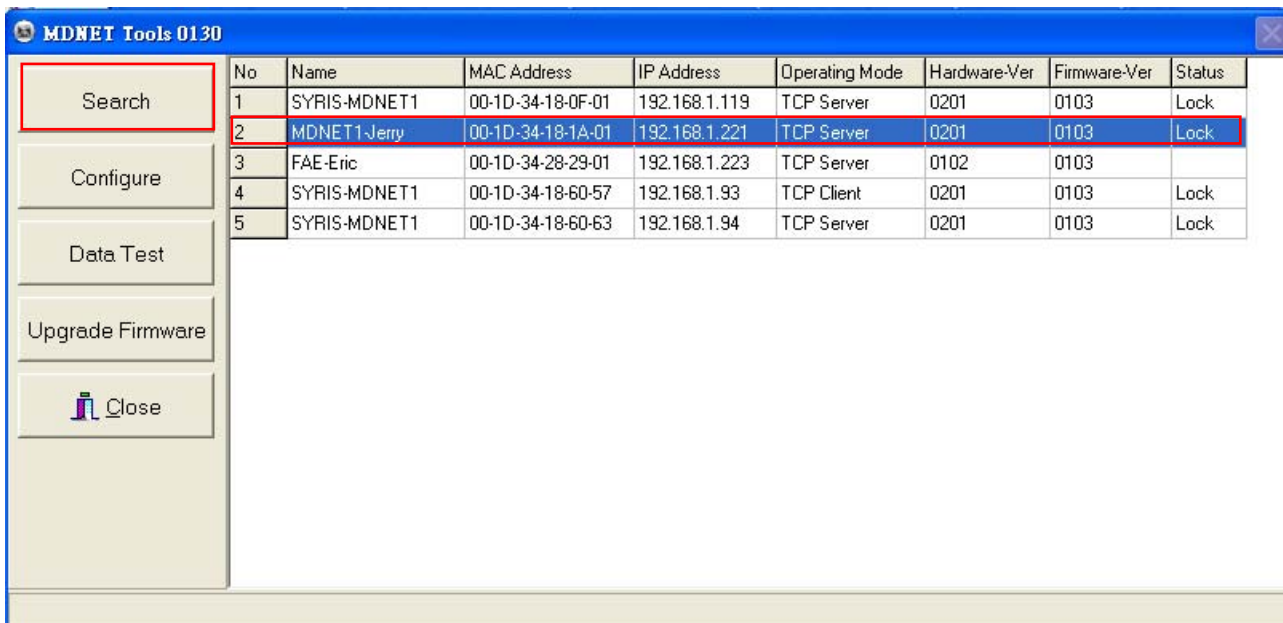
Items / Specs	MDNET-1	MDNET-95A	MDNET-1-A
局域网络	10BASE-T/100BASE-TX port, 10/100Mbps auto-sensing		
TP port	RJ-45 phone jack		
通讯协议	TCP Server/Client, UDP		
通信格式	RS-232 / RS-485 (Auto-detecting)		
连接串口	9 PIN D-SUB (RS-232 / RS-485)		
通信速度	19,200 bps (4,800、9,600、19,200、38,400、57,600、115,200)		
Parity	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)

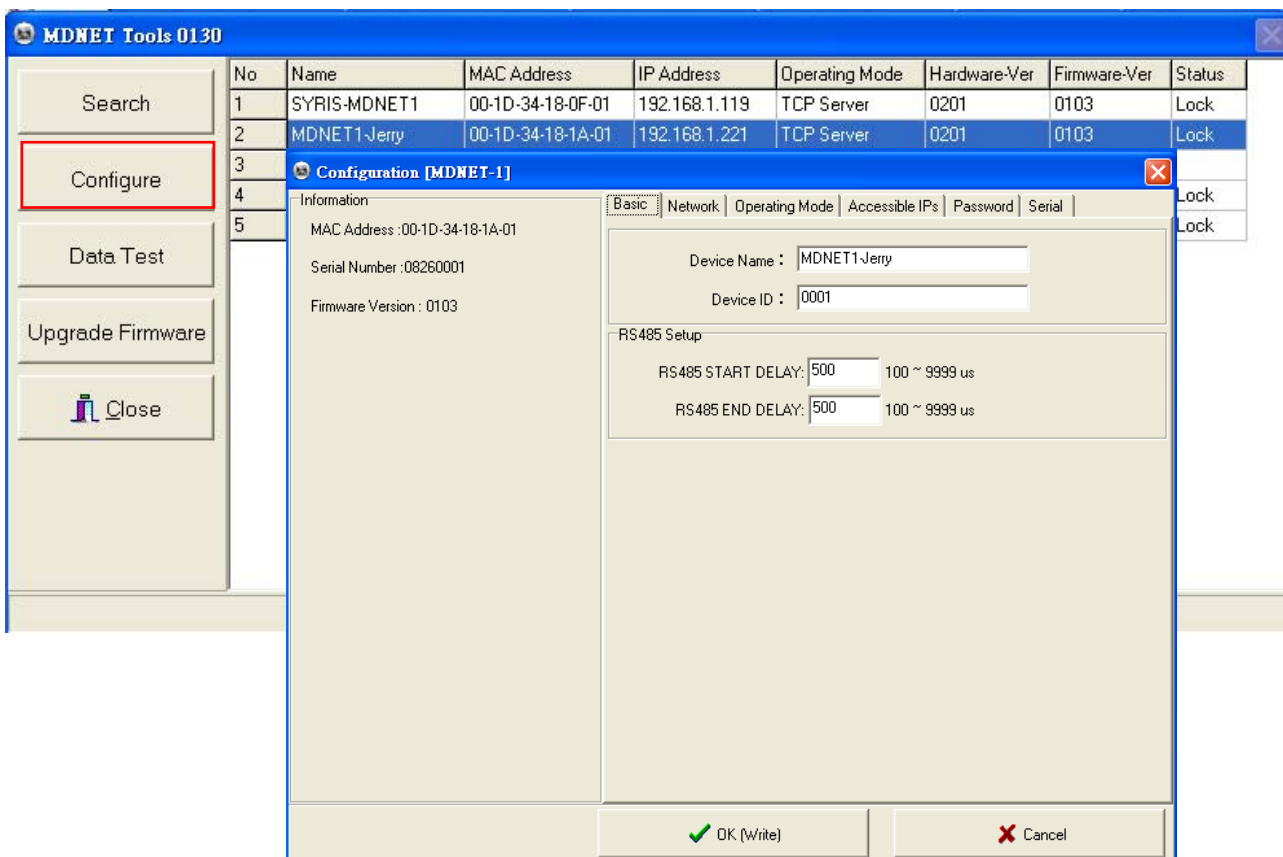
## ■ 连结装置

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。

Configuration [MDNET-1]

Basic | Network | Operating Mode | Accessible IPs | Password | Serial

1. Device Name : MDNET1-Jerry

2. Device ID : 0001

RS485 Setup

3. RS485 START DELAY: 500 100 ~ 9999 us

4. RS485 END DELAY: 500 100 ~ 9999 us

5. ✓ OK (Write)      ✗ Cancel

## ■ Configuration-Network

选择 **DHCP** 或是设定 IP相关信息

Configuration [MDNET-1]

Basic | Network | Operating Mode | Accessible IPs | Password | Serial

DHCP

Static IP

IP Address: 192 168 1 221

Netmask Address: 255 255 255 0

Gateway Address: 192 168 1 254

DNS Server1: 0 0 0 0

DNS Server2: 0 0 0 0

✓ OK (Write)      ✗ Cancel

## ■ 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。

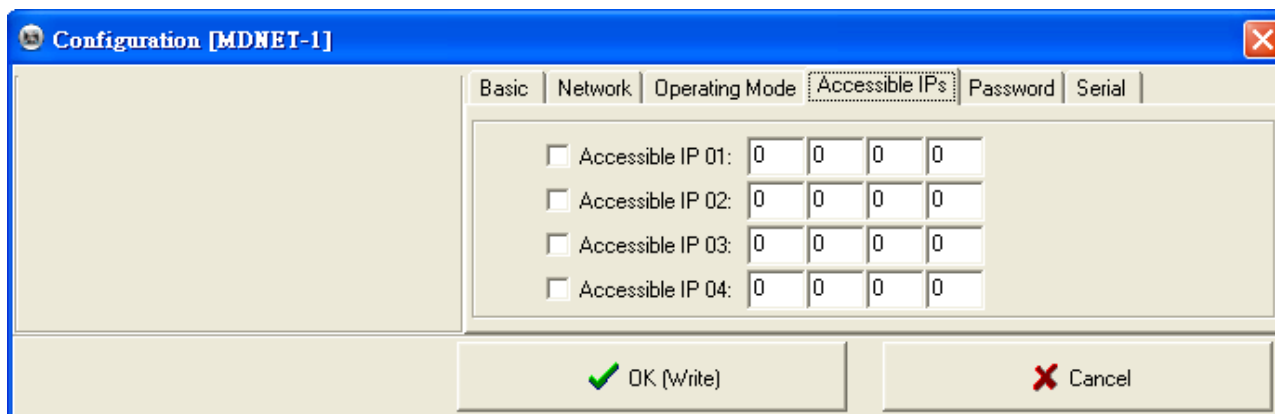
The screenshot shows the 'Configuration [MDNET-1]' dialog box with the 'Operating Mode' tab selected. The left pane shows device information: MAC Address: 00-1D-34-18-30-02, Serial Number: 08480002, Firmware Version: 0104, and Hardware Version: 0201. The right pane contains the following settings:

- 1. TCP Server Mode:** Local Port: 5001, Max Connection: 1
- 2. TCP Client Mode:** Connect Mode: Starup. Four Destination IP entries are shown, each with a checkbox and IP address (0.0.0.0) and Port (5001).
- 3. UDP Mode:** Local Port: 5001. Four Destination IP entries are shown, each with a checkbox and IP address (0.0.0.0) and Port (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).

Buttons at the bottom: OK (Write) and Cancel.

## ■ Configuration-Accessible IPs

可设定四组拥有存取权限的IP。

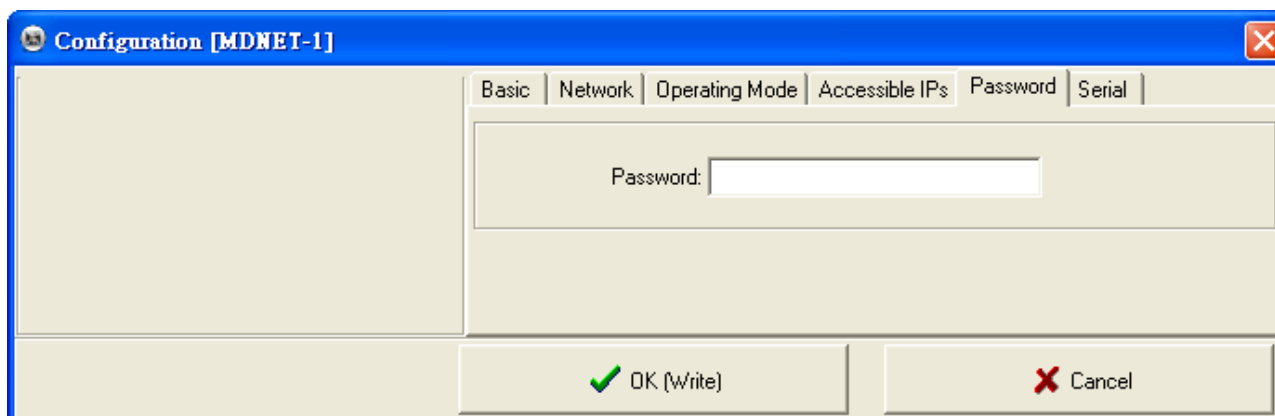


The screenshot shows the 'Configuration [MDNET-1]' dialog box with the 'Accessible IPs' tab selected. The dialog has a title bar with a close button. Below the title bar are tabs for 'Basic', 'Network', 'Operating Mode', 'Accessible IPs', 'Password', and 'Serial'. The 'Accessible IPs' tab contains four 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	0	0	0	0
Accessible IP 01:	0	0	0	0
Accessible IP 02:	0	0	0	0
Accessible IP 03:	0	0	0	0
Accessible IP 04:	0	0	0	0

## ■ Configuration-Password

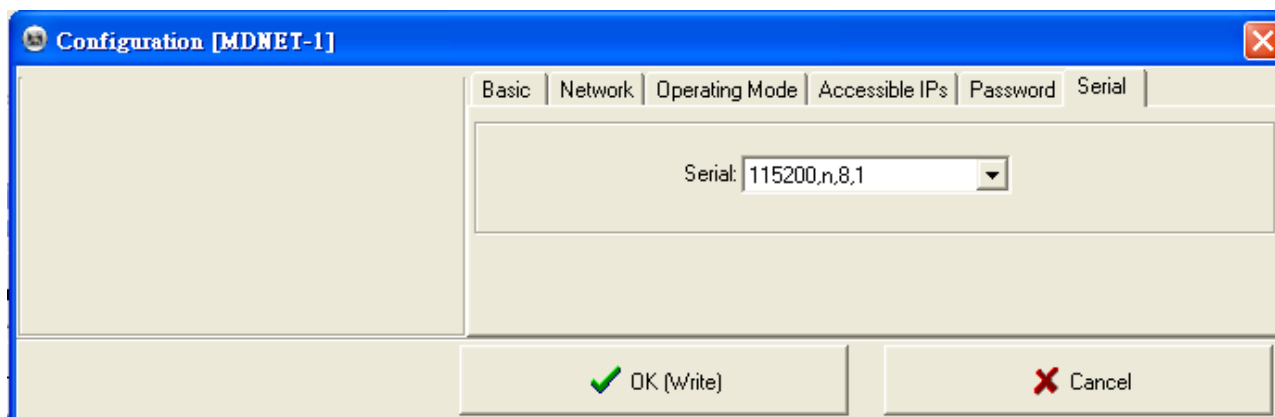
设定进入控制模式时候的密码。



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

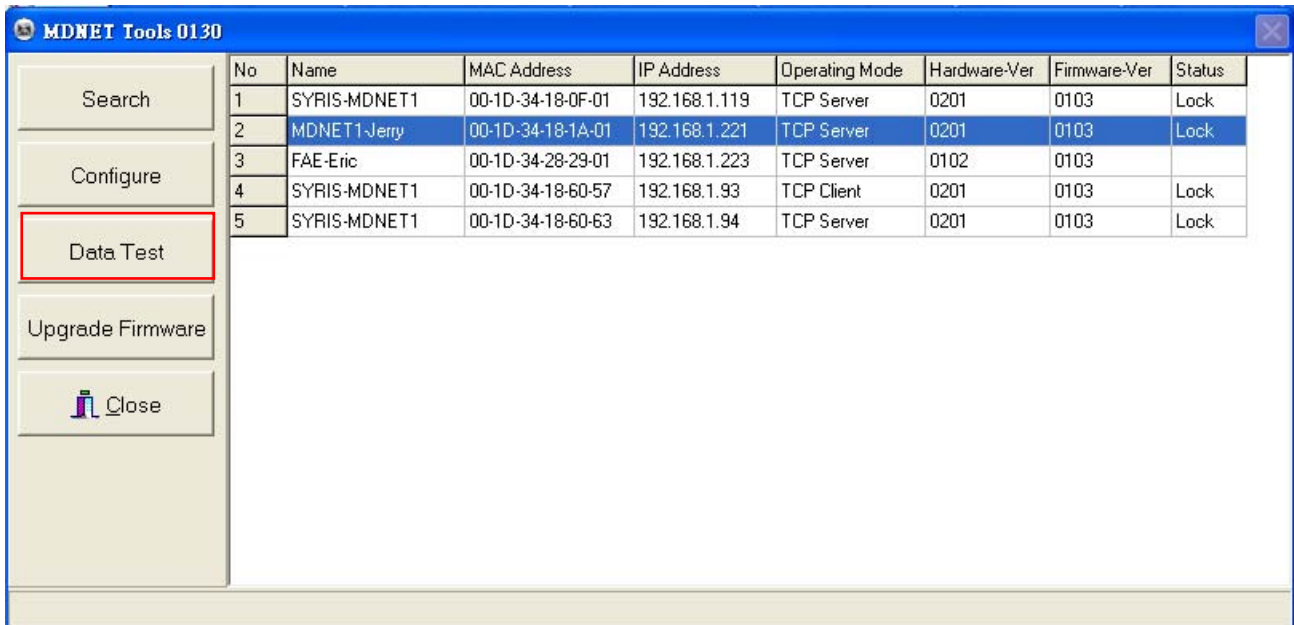
设定速率。



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

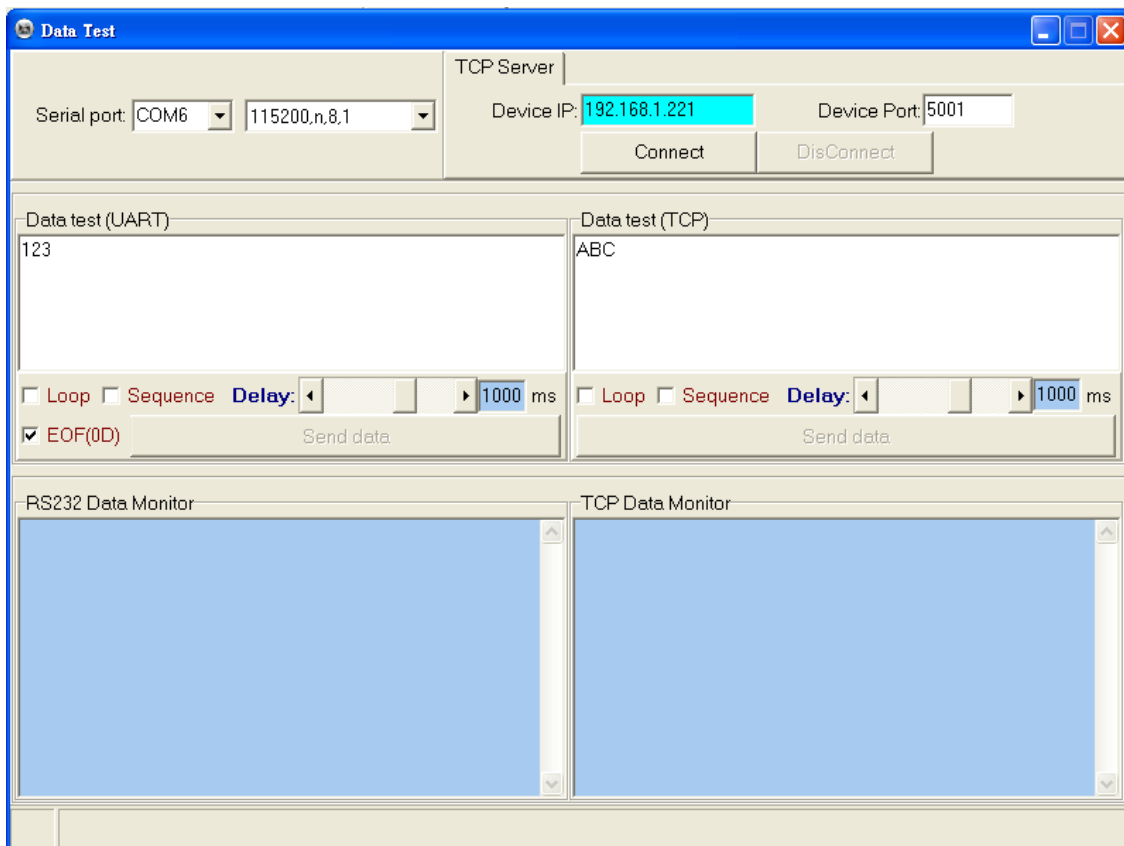
点选 **Data Test** 开启数据传输测试。



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

