

MDNET網路轉換器模組說明書

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



璽瑞股份有限公司

403台中市中港路一段12號12樓

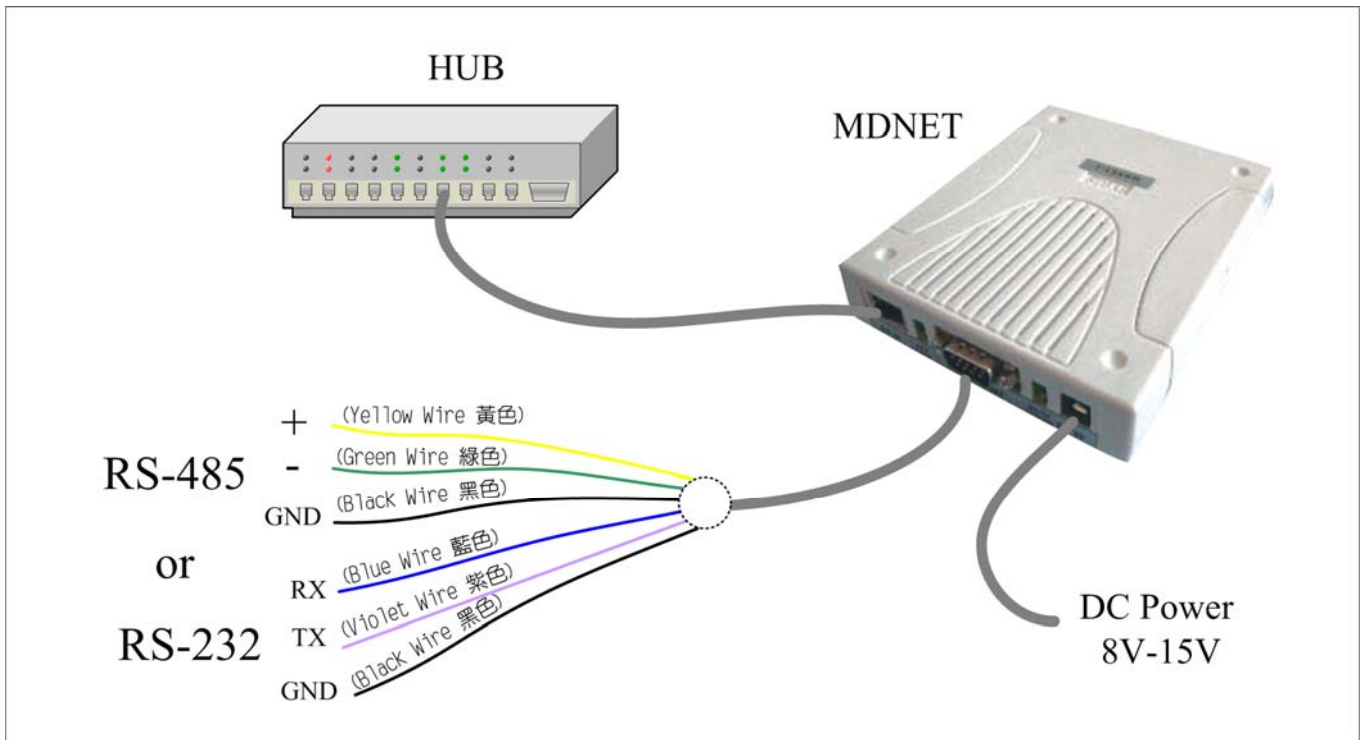
電話：+886-4-2207-8888

傳真：886-4-2207-9999

電子信箱：service@syris.com

網站：<http://www.syris.com>

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規格:

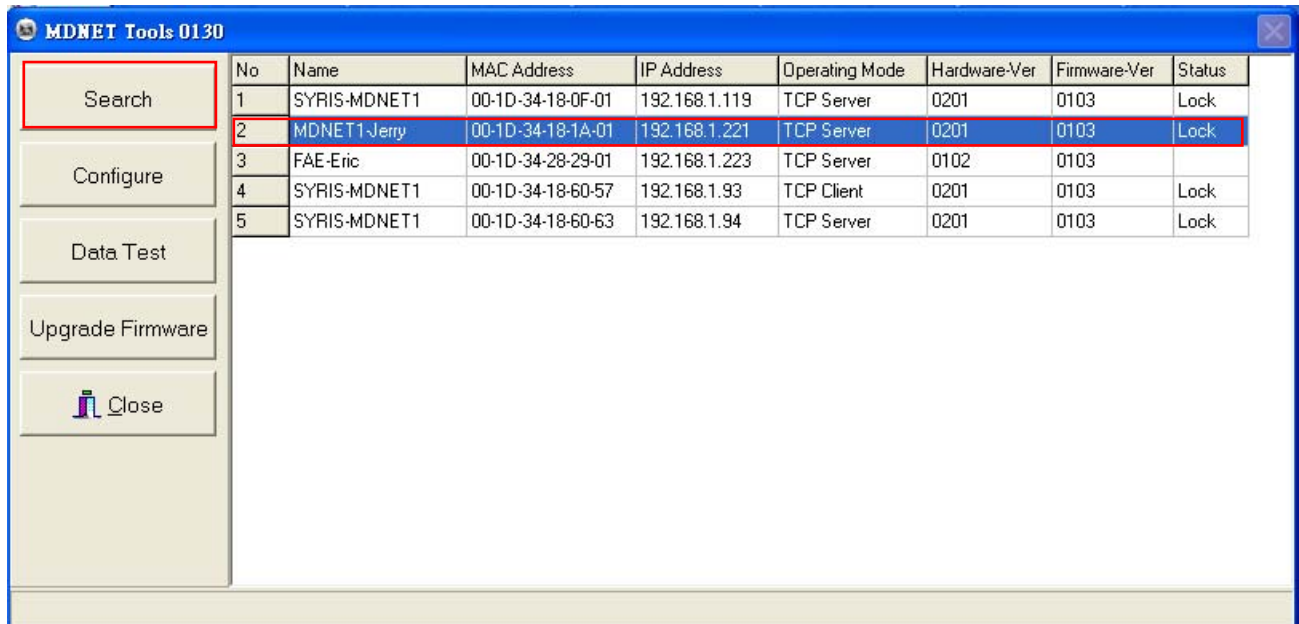
Items / Specs	MDNET-1	MDNET-95A	MDNET-1-A
區域網路	10BASE-T/100BASE-TX port, 10/100Mbps auto-sensing		
TP port	RJ-45 phone jack		
通訊協定	TCP Server/Client, UDP		
通信格式	RS-232 / RS-485 (Auto-detecting)		
連接串口	9 PIN D-SUB (RS-232 / RS-485)		
通信速度	19,200 bps (4,800、9,600、19,200、38,400、57,600、115,200)		
Parity	None, Event, Odd		
Data bits / Stop bits	8 / 1		
配合軟體	None	SYW95A-NET	YSOFT-95A-260
狀態指示	4 LED (Power, RX/TX, Link, Active)		
顏色	Beige		
工作濕度	10% to 95% (Non-condensing)		
工作溫度	-20°C to 70°C		
儲存溫度	-30°C to 80°C		
Magnetic isolation	1.5KV for Ethernet		
輸入電壓	8V to 15V DC		
網路供電模組	POE 模組(選購配件)		
尺寸(mm)	110W x 136H x 32.5D		

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

MDNET 工具使用說明 (繁體中文)

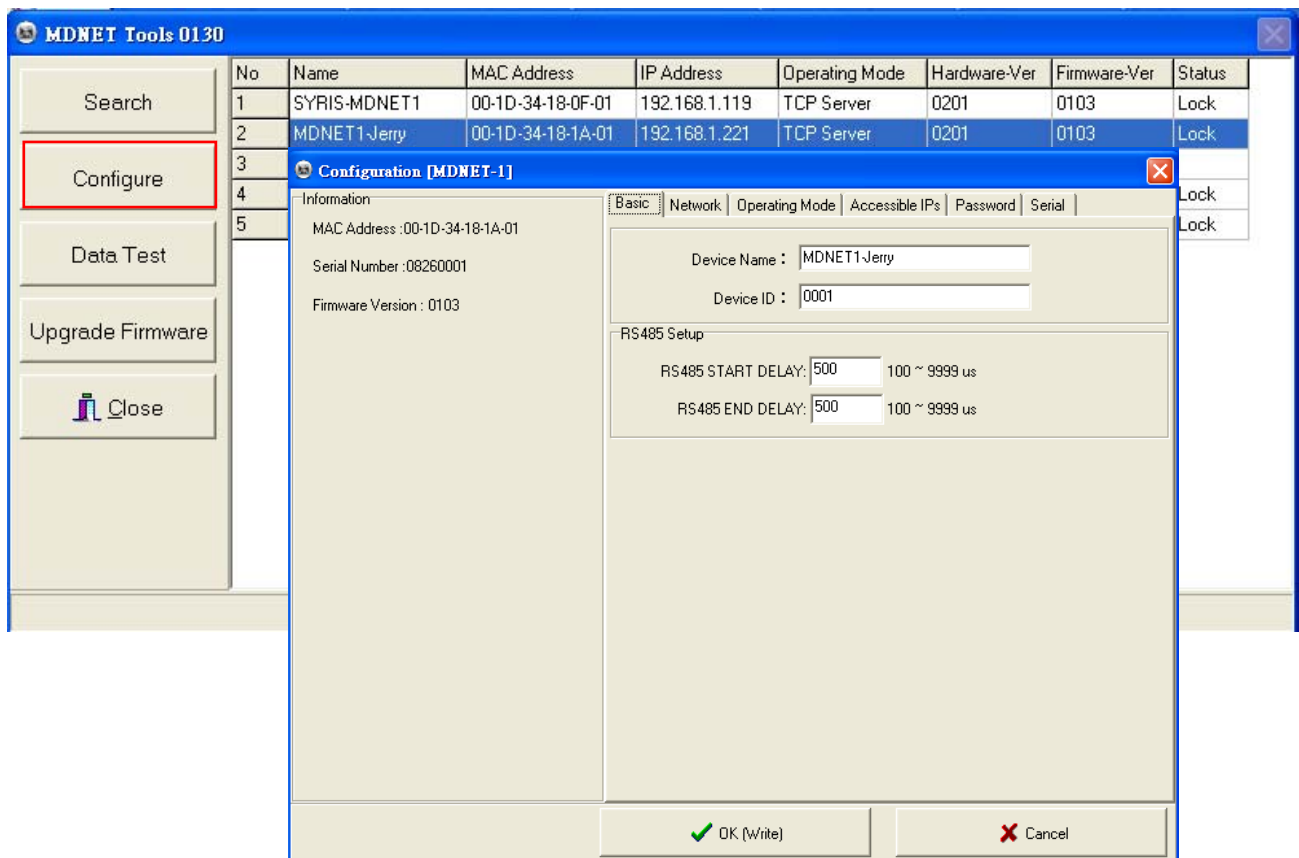
■ 連結裝置

開啓MDNET2_Tools後，點選 **Search** 搜尋裝置資料。



■ Configure

雙擊裝置資料行或是點選 **Configure** 進入控制模式。



■ Configuration-Basic

1. 於 **Device Name** 欄位輸入裝置名稱。
2. 於 **Device ID** 欄位輸入設定ID。
3. 於 **RS485 START DELAY** 欄位輸入設定延遲時間。
4. 於 **RS485 ENDT DELAY** 欄位輸入設定延遲時間。
5. 確認後點選 **OK(Write)** 寫入。

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 ENDT DELAY: 500 100 ~ 9999 us

5. ✓ OK (Write) ✗ Cancel

■ Configuration-Network

選擇 **DHCP** 或是設定 IP相關資訊

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**：設定Local Port，Max Connection可達4。
2. **TCP Client Mode**：可設定Any Character或Star up模式，最多可設定四組IP。
3. **UDP Mod**：設定Local Port，最多可設定四組IP。
4. **Data Packing**：設定段落字元（接收到某特定字元時，將傳出該字元前的訊息）
Force Tx Timeout：如果遲遲未收到指定段落字元，則在多久時間後送出訊息。
5. **Miscellaneous**：TCP Alive Check Timeout—連線達到設定時間後即斷線；
Inactivity Timeout—於設定時間內無資料傳輸(UART)即斷線。

Configuration [MDNET-1]

Information

MAC Address :00-1D-34-18-30-02

Serial Number :08480002

Firmware Version : 0104

Hardware Version : 0201

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

1. TCP Server Mode
Local Port: 5001 Max Connection: 1

2. TCP Client Mode
Connect Mode: Startup

Destination IP 01: 0 0 0 0 Port: 5001

Destination IP 02: 0 0 0 0 Port: 5001

Destination IP 03: 0 0 0 0 Port: 5001

Destination IP 04: 0 0 0 0 Port: 5001

3. UDP Mode
Local Port: 5001

Destination IP 01: 0 0 0 0 Port: 5001

Destination IP 02: 0 0 0 0 Port: 5001

Destination IP 03: 0 0 0 0 Port: 5001

Destination IP 04: 0 0 0 0 Port: 5001

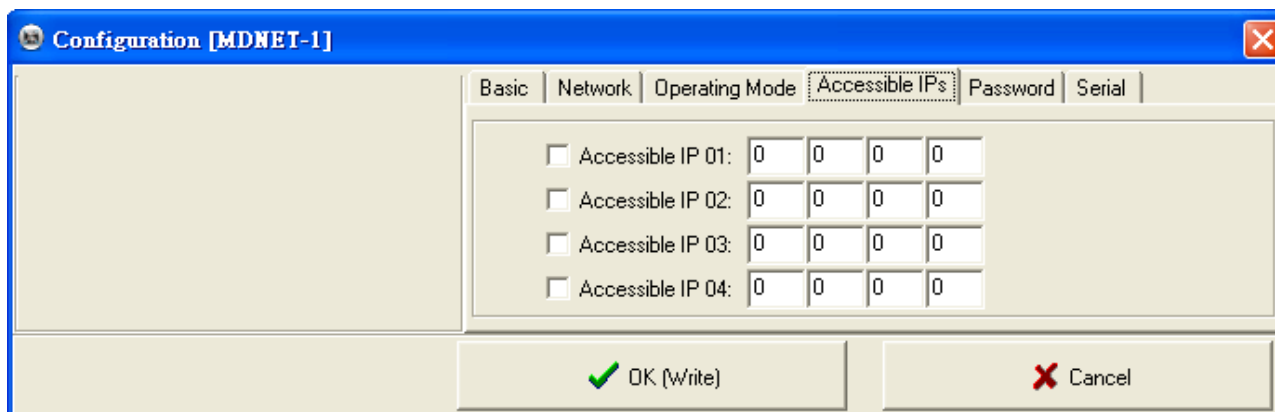
4. Data Packing(Optional)
 Delimiter 1: 0D (0 - ff,Hex)
 Delimiter 2: 00 (0 - ff,Hex)
Force Tx Timeout: 0 (0 - 65535 ms)

5. Miscellaneous(Optional)
TCP Alive Check Timeout: 0 (0 - 255 min)
Inactivity Timeout: 0 (0 - 65535 ms)

OK (Write) Cancel

■ Configuration-Accessible IPs

可設定四組擁有存取權限的IP。

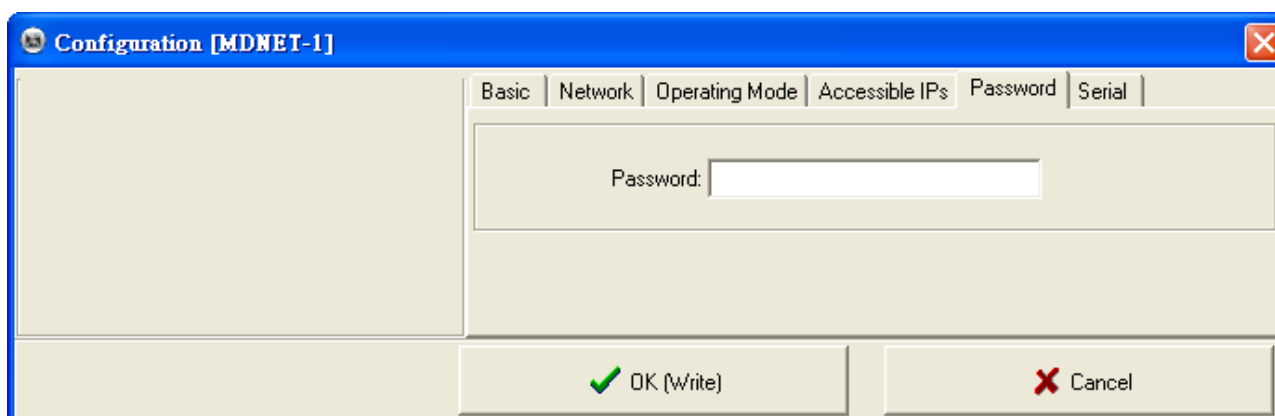


The screenshot shows the 'Configuration [MDNET-1]' dialog box with the 'Accessible IPs' tab selected. The dialog has a title bar with a close button. Below the title bar are tabs for 'Basic', 'Network', 'Operating Mode', 'Accessible IPs', 'Password', and 'Serial'. The 'Accessible IPs' tab contains four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

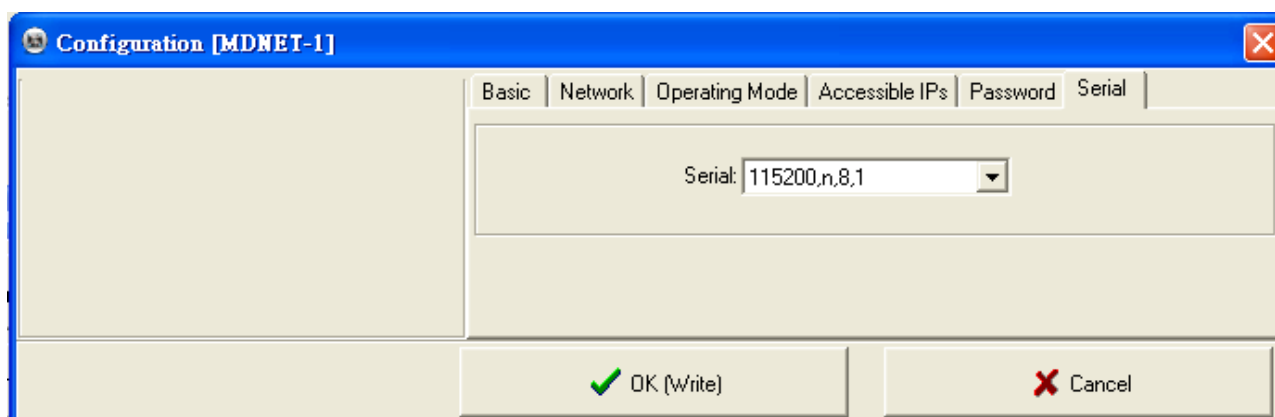
設定進入控制模式時候的密碼。



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 single text input field labeled 'Password:'. At the bottom are 'OK (Write)' and 'Cancel' buttons.

■ Configuration-Serial

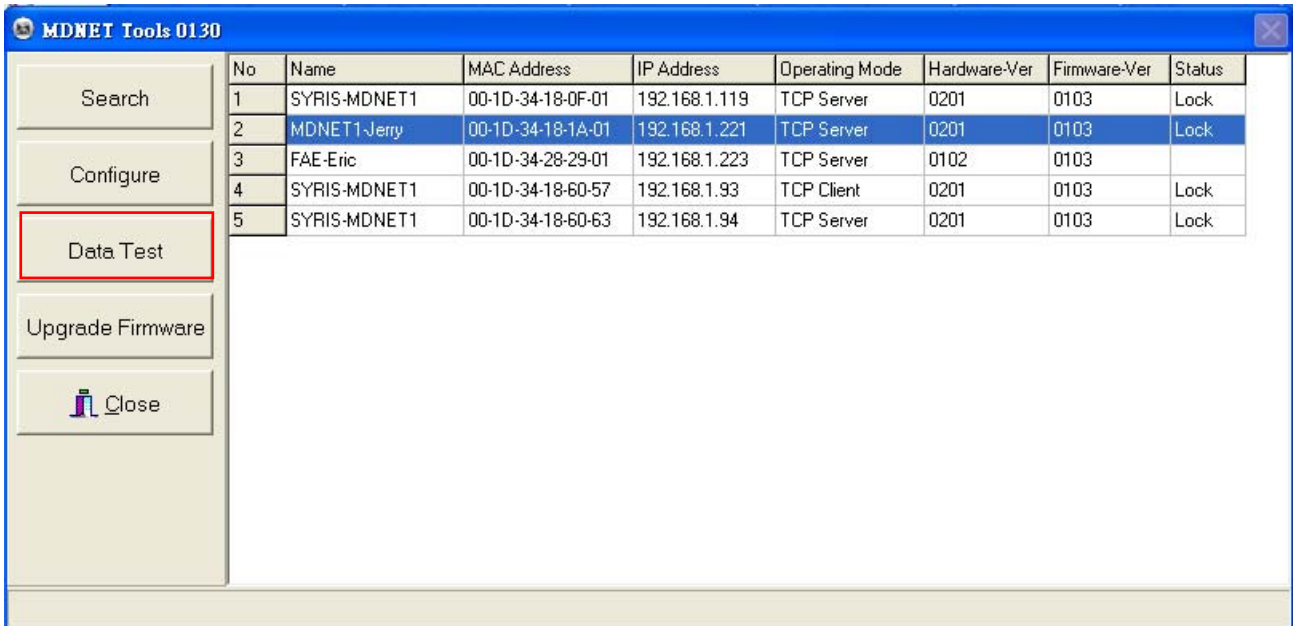
設定速率。



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 dropdown menu labeled 'Serial:' with the value '115200,n,8,1' selected. At the bottom are 'OK (Write)' and 'Cancel' buttons.

■ Data Test

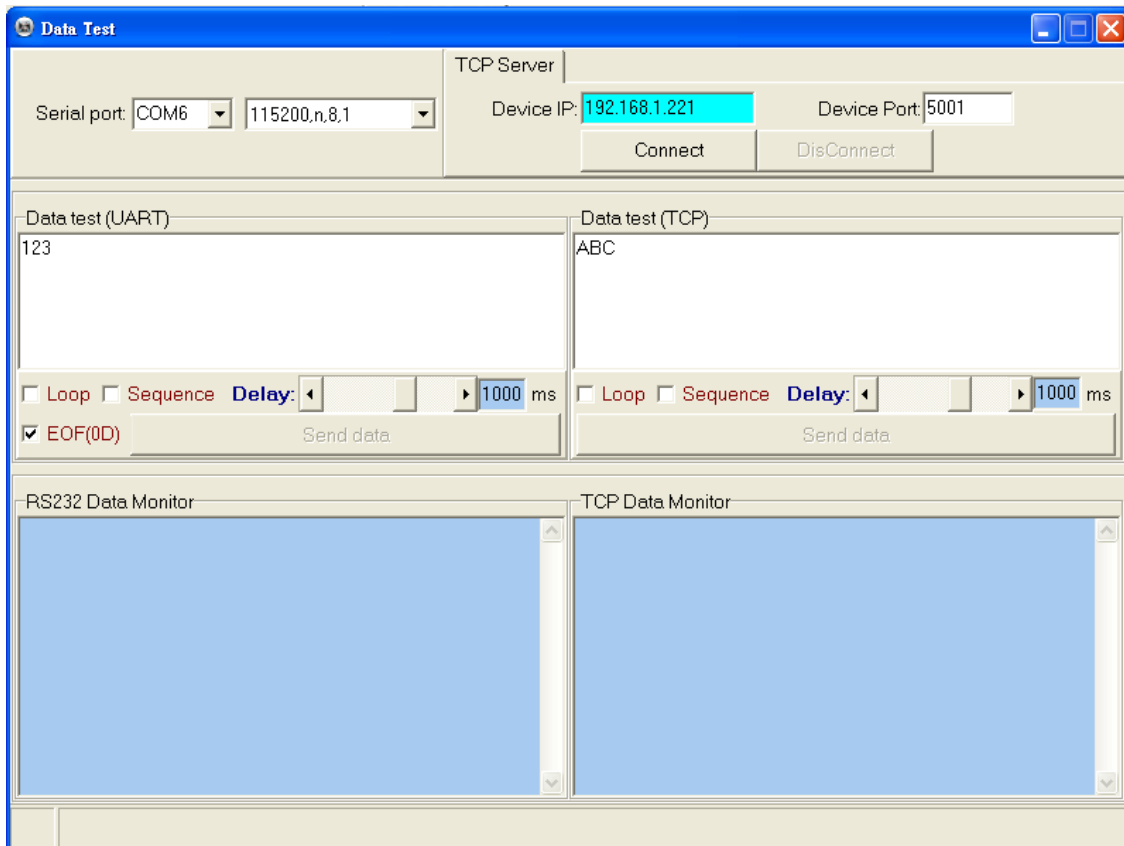
點選 **Data Test** 開啓資料傳輸測試。



設定與欲連線的Port與速率，點選 **Connect** 連線裝置。

點選 **Loop** 可連續傳送訊息，於Delay部分設定時間。

點選 **Sequence** 則會在傳送的訊息前加上序號。



■ Upgrade Firmware : 更新韌體

