■ Upgrade Firmware

S MDNET Tools 0130								
1	No	Name	MAC Address	IP Address	Operating Mode	Hardware-Ver	Firmware-Ver	Status
Search	1	SYRIS-MDNET1	00-1D-34-18-0F-01	192.168.1.119	TCP Server	0201	0103	Lock
	2	MDNET1-Jerry	00-1D-34-18-1A-01	192.168.1.221	TCP Server	0201	0103	Lock
Configure	3	F/ 開啓						? 🔀
	5	s S'查詢(]):	DIMENT_Tool	ls	•	🗢 🗈 💣		
Data Test			MDNET2_V01	03.SYB				
Upgrade Firmware		我最近的文件						
<u>I</u> <u>C</u> lose		桌面						
		おの文件						
		我的電腦						_
		- C						
		網路上的芳鄰						
			檔名(N):	MDNET2_V010.	3	•	開啓	0
			檔案類型(<u>T</u>):	Firmware files (*	(SYB)	•	取注	肖

Install and Operation Instructions MDNET Module

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



SYRIS Technology Corp.

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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(緑)
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 Specification

Items / Specs	MDNET-1	MDNET-95A	MDNET-1-A
LAN	10BASE-T/100BASE-TX	port, 10/100Mbps auto-sensit	ng
TP port	RJ-45 phone jack		
Protocol	TCP Server/Client, UDP		
Interface	RS-232 / RS-485 (Auto-det	tecting)	
Connector port	9 PIN D-SUB (RS-232 / RS	S-485)	
Baud rate	19,200 bps (4,800 \ 9,600	\$	115,200)
Parity	None, Event, Odd		
Data bits / Stop bits	8 / 1		
Software dongle	None	SYW95A-NET	SYSOFT-95A-260
Indicator	4 LED (Power , RX/TX , I	Link, Active)	
Color	Beige		
Humidity	10% to 95% (Non-condense	ing)	
Operating temperature	-20°C to 70°C		
Storage temperature	-30°℃ to 80°℃		
Magnetic isolation	1.5KV for Ethernet		
Power supply input	8V to 15V DC		
Power over Ethernet module	POE module(option)		
Dimensions (mm)	110W x 136H x 32.5D		

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

Data Test

B MDNET Tools 0130								
	No	Name	MAC Address	IP Address	Operating Mode	Hardware-Ver	Firmware-Ver	Status
Search	1	SYRIS-MDNET1	00-1D-34-18-0F-01	192.168.1.119	TCP Server	0201	0103	Lock
-	2	MDNET1-Jerry	00-1D-34-18-1A-01	192.168.1.221	TCP Server	0201	0103	Lock
Configura	3	FAE-Eric	00-1D-34-28-29-01	192.168.1.223	TCP Server	0102	0103	
Conligure	4	SYRIS-MDNET1	00-1D-34-18-60-57	192.168.1.93	TCP Client	0201	0103	Lock
	5	SYRIS-MDNET1	00-1D-34-18-60-63	192.168.1.94	TCP Server	0201	0103	Lock
Upgrade Firmware								
	-							

Click **Data Test** to test data transmission.

Setup the Port and Baud rate, then click Connect to connect device.

Check the option of **Loop** to continue transmit message. The bar of **Delay can set delay** time.

Check the option of <u>Sequence</u> to add serial number to message.

😕 Data Test				
	TCP Server			
Serial port COM6 I15200.n.8.1	Device IF	2 192.168.1.221	Device Port: 5001	_
, _, _		Connect	DisConnect	
		· · · ·		
Data test (UART)		Data test (TCP)		
123		ABC		
Loop C Sequence Delay:	• 1000 ms	🗖 Loop 🗖 Sequence	Delay: •	▶ 1000 ms
EOF(0D) Send data.			Send data	
RS232 Data Monitor		-TCP Data Monitor		
	<			×

■ Configuration-Accessible IPs

The number of IP setting that can be used to access is up to 4.

Configuration [MDNET-1]		×
	Basic Network Operating Mode Accessible IPs Password Serial	
	Accessible IP 01: 0 0 0	
	Accessible IP 02: 0 0 0	
	Accessible IP 03: 0 0 0	
	Accessible IP 04: 0 0 0	
	V OK (Write) X Cancel	

■ Configuration-Password

Setup the password that will be used when the user access into control mode.

S Configuration [MDNET-1]		\mathbf{X}				
ſ	Basic Network Operating Mode Acc	cessible IPs Password Serial				
	Password:					
	🗸 OK (Write)	🗙 Cancel				

■ Configuration-Serial

Setup baud rate.

Configuration [MDNET-1]		×			
	Basic Network Operating Mode Acc	essible IPs Password Serial			
	Serial: 115200,n,8,1				
	🗸 OK (Write)	🗶 Cancel			

MDNET Tools Operation Manual (English)

Search Device

Run MDNET_Tools then click **<u>Search</u>** to search device.

S MDNET Tools 0130									
	No	Name	MAC Address	IP Address	Operating Mode	Hardware-Ver	Firmware-Ver	Status	
Search	1	SYRIS-MDNET1	00-1D-34-18-0F-01	192.168.1.119	TCP Server	0201	0103	Lock	
	2	MDNET1-Jerry	00-1D-34-18-1A-01	192.168.1.221	TCP Server	0201	0103	Lock	
Configure	3	FAE-Eric	00-1D-34-28-29-01	192.168.1.223	TCP Server	0102	0103		
Conligure	4	SYRIS-MDNET1	00-1D-34-18-60-57	192.168.1.93	TCP Client	0201	0103	Lock	
	5	SYRIS-MDNET1	00-1D-34-18-60-63	192.168.1.94	TCP Server	0201	0103	Lock	1
Upgrade Firmware									

■ Configure

Double click device in dbgrid or select device then click <u>Configure</u> to switch into Configuration mode.

MDNET Tools 0130								
1	No	Name	MAC Address	IP Address	Operating Mode	Hardware-Ver	Firmware-Ver	Status
Search	1	SYRIS-MDNET1	00-1D-34-18-0F-01	1 192.168.1.119	TCP Server	0201	0103	Lock
<u></u>	2	MDNET1-Jerry	00-1D-34-18-1A-0	1 192.168.1.221	TCP Server	0201	0103	Lock
Configure	3	Configuration [MD]	NET-1]					
Conligure	4	Information		Basic Network Opera	ating Mode 🛛 Accessible	e IPs Password Se	erial	Lock
	5	MAC Address :00-1D-34	4-18-1A-01					Lock
Data Test		Serial Number :0826000	01	Device Name	e: MDNET1Jerry			
		Firmware Version : 0103	3	Device ID	0001			
Upgrade Firmware				RS485 Setup				
				BS485 STABT DE	I AY: 500 100	~ 9999 us		
n class					100	~ 0000		
				R5485 END DE	LAY: 500 100	- 9999 us		
				🗸 OK (Writ	e)	🗙 Ca	ncel	

■ Configuration-Basic

- 1. Enter the device caption into the field of **Device Name**.
- 2. Enter the ID into the field of **Device ID**.
- 3. Enter the delay time into the field of **RS485 START DELAY**.
- 4. Enter the delay time into the field of **RS485 END DELAY**.
- 5. Check all the setting then click **OK(Write)** to write data into the device.

Configuration [MDNET-1]		\mathbf{X}
	Basic Network Operating Mode Acc 1. Device Name : MDNET1-Jo 2. Device ID : 0001 RS485 Setup	essible IPs Password Serial
	3. RS485 START DELAY: 500 4. RS485 END DELAY: 500	100 ~ 9999 us 100 ~ 9999 us
	5. V OK (Write)	🗙 Cancel

■ Configuration-Network

Choose **<u>DHCP</u>** or setup the IP information.

Configuration [MDNET-1]	
[Basic Network Operating Mode Accessible IPs Password Serial
	T 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
	DNS Server2: 0 0 0
	V OK (Write)

■ Configuration-Operating Mode

1. TCP Server Mode : Setup Local Port. The number of Max Connection is up to 4.

2. TCP Client Mode : The modes can be set as Any Character or Star up. The number of

IP setting is up to 4.

3. UDP Mod: Setup Local Port. The number of IP setting is up to 4.

4. Data Packing : Setup data packing (The device will send the message while receiving specified character). Force Tx Timeout : The device will send the message after the setting time while without getting specified character.

5. Miscellaneous : TCP Alive Check Timeout – The device will break the connection while the time of connection equal the setting of Timeout.

Inactivity Timeout—The device will break the connection while no data transmitted in the setting period.

S Configuration [MDNET-1]	
Information	Basic Network Operating Mode Accessible IPs Password Serial
MAC Address :00-1D-34-18-30-02	TCP Server Mode
Serial Number :08480002	Local Port: 5001 Max Connection: 1 💌
Firmware Version : 0104	
Hardware Version : 0201	2. C TCP Client Mode Connect Mode: Starup
	Destination IP 01: 0 0 0 Port: 5001
3	Destination IP 02: 0 0 0 0 Port: 5001
	Destination IP 03: 0 0 0 Port: 5001
	Destination IP 04: 0 0 0 Port: 5001
	3. C UDP Mode
	Local Port 5001
	Destination IP 01: 0 0 0 Port: 5001
	Destination IP 02: 0 0 0 Port: 5001
	Destination IP 03: 0 0 0 Port: 5001
	Destination IP 04: 0 0 0 Port: 5001
	Data Packing(Optional) S Miscellaneous(Optional)
	Delimiter 1 OD (0 - ff,Hex) TCP Alive Check Timeout
	Delimiter 2 00 (0 - ff,Hex)
	Force Tx Timeout: 0 (0 - 65535 ms) 0 (0 - 65535 ms)
	V OK (Write)