PL-SNet SERIAL PORT TO ETHERNET Converter

■ DESCRIPTION

PL-SNet uses 8051's family microprocessor for implementing serial ports to Ethernet functions. It uses the state machine to handle TCP/IP stack and brings the user a lower cost TCP/IP stack with limited functions because of the limited resources.
It supports ARP, ICMP, TCP, UDP, IP, DHCP-Client and even HTTP protocols. You can use any browsers to set the parameters, or just use the commands in console mode.

■ FEATURE

- **Allows RS-232/422/485 serial devices to be connected to Ethernet network via transparent data conversion and operates as an Ethernet node. Serial communication speed is up to 115.2 kbps.**
- **At most three ports available.(please refer to ordering information)**
- **Eight Independent Sockets available. Support at most eight independent sockets for SIO, Digital I/O and HTTP and all protocol working independent and concurrently.**
- **Setup login in password and access password for security.**

■ APPLICATIONS

It is easy to convert serial port data to Ethernet in IA, Factory Automation, Security or any other low data rate data transmission by using it as the intermediate converter.

- **Data collection & security terminals**
- **Security devices**
- **Warehouse terminals**
- **Remote sensors & meters**
- **Environmental monitors**
- **Access control terminals**
- **Time recorders**
- **Shop floor automation terminals**
- **Power monitors**
- **Data loggers**

■ ORDERING INFORMATION

PL−SNet− [Socket No.] − [Port 1][Port 2][Port 3] − [DI/DO] − [Aux. Powered]

CODE	SOCKET NO.
1	1 Socket
8	8 sockets(Server) for each port

CODE	1 PORT
1NN	RS 232
2NN	RS 422
3NN	RS 485

CODE	2 PORTS
12N	RS 232+RS422
13N	RS 232+RS485

CODE	3 PORTS
133	RS232+RS485*2

CODE	DI/DO
NN	None

CODE	AUX. POWERED
D24	DC 24V

■ TECHNICAL SPECIFICATION

CPU:	8051's family microprocessor
Network interface:	10/100 BASE-T, RJ-45 connector
Protocol:	ARP, ICMP, TCP, UDP, IP, DHCP Client, HTTP, Modbus/TCP Master/Slave,
Multi-socket:	PL-SNet-1: 1 socket (Client/Server) PL-SNet-8: 8 socket (Server only)
Serial ports:	RS-232 / RS-422 / RS-485, software selectable
Protocol:	Baud rate: 300~115200 bps Data bits: 7, 8 Parity: None, Even, Odd Auto-ID scanners Stop bits: 1, 2 Flow control: RTS/CTS
LED indication:	SYS: Red high bright round LED Link: Green high bright round LED RX: Green high bright round LED TX: Red high bright round LED
Configuration:	Web Browser, Windows utility via Ethernet Set up password & Access password settable

Power

Power Supply:	DC 24V
Power consumption:	≤ 1W

Electrical

Dielectric Strength:	3 KV, 1 minute; between Serial ports / RJ45 / Power
Insulation resistance:	≥100MΩ at 500Vdc, Between Serial ports / RJ45 / Power

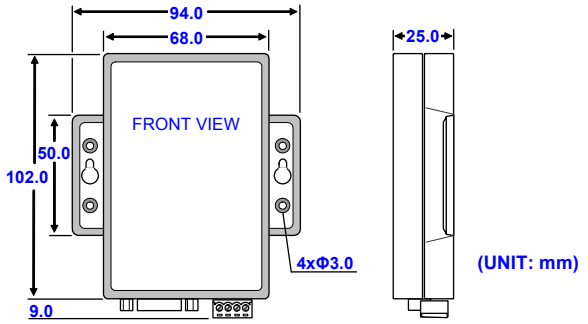
Environmental

Operating temp.:	0~60 ˚C
Operating humidity:	20~95 %RH, non-condensing
Storage temperature:	-10~70 ˚C

Mechanical

Case Material:	ABS fire-protection (UL 94V-0)
Mounting:	Surface mounting
Terminal block:	Plastic NYLON 66 (UL 94V-0)
Weight:	110g

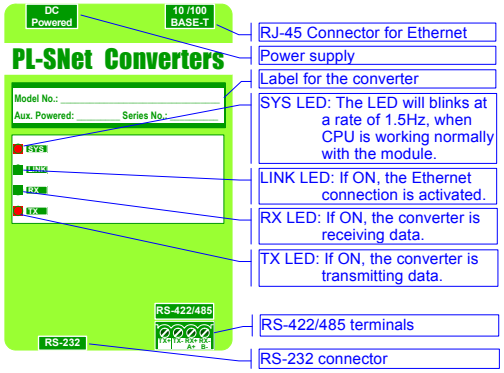
■ DIMENSIONS



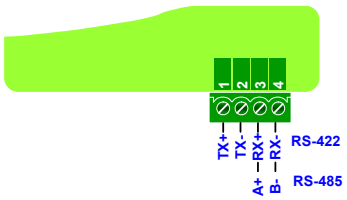
Amend (2010/9/14): Change the ordering information of 3 port from 122(port1: RS232, port2: RS422, port3: RS422) to 133(port1: RS232, port2: RS485, port3: RS485)

■ FRONT PANEL & CONNECTION

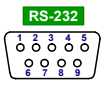
Please check the voltage of power supplied first, and then connect to the specified terminals.



RS-422/RS-485 CONNECTION

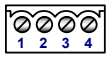


RS-232



PIN	RS-232
1	
2	RTX
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	

RS-422 RS-485



PIN	RS-422
1	TX+
2	TX-
3	RX+
4	RX-

PIN	RS-485
1	
2	
3	A+
4	B-

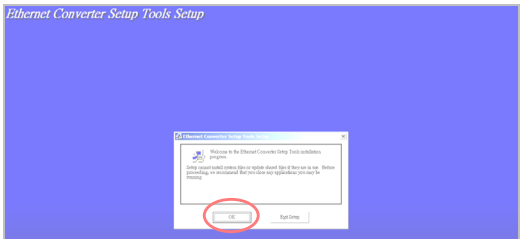
■ SET UP & CONFIGURATION

Please refer to the operating manual for detail.

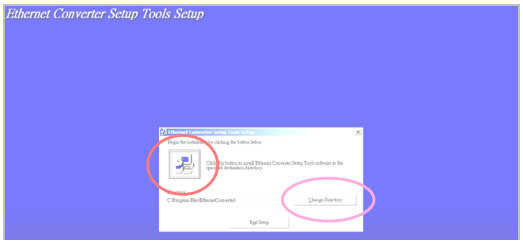
By set up tool

Step 1: Execute the Setup.exe file of CDR enclosure with product.
Execute the Setup.exe file and you will get the following screen

Step 2: Welcome Messages
Wait until the Welcome Message shows. Select OK Button to continue installation.

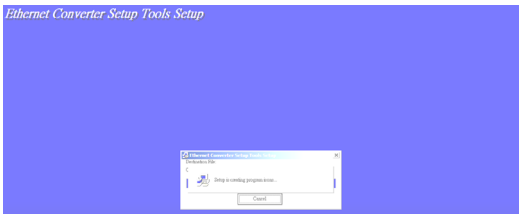


Step 3: Decide Directory
Choose "Change Directory" to change which directory you want to put files in if needed.
And press red circle button to start installation.

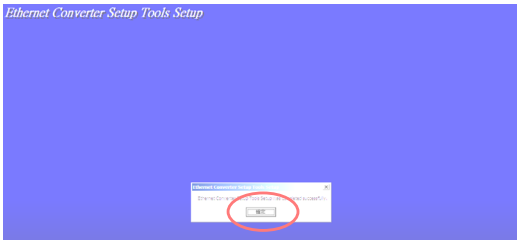


Step 4: Decide Program Group Name
Input the "Program Group Name" you want, by just left it by default.

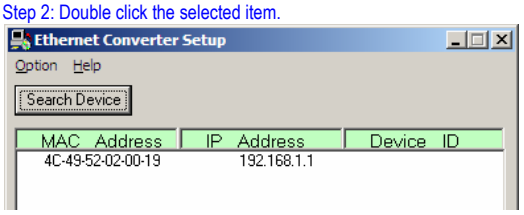
Step 5: Processing
Start installation process.



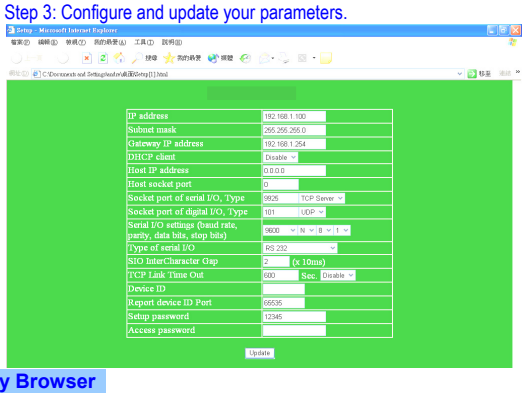
Step 6: Finished
Press Button to finish installation.



Connect the converter and Ethernet port of PC, then configurate the converter
Step 1: Auto-searching the devices.
Step 2: Double click the selected item.



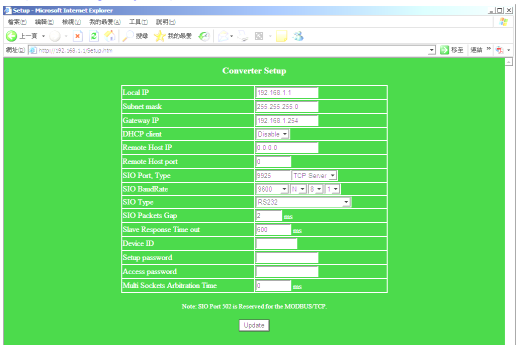
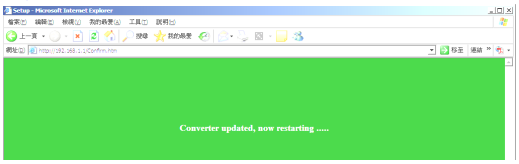
Step 3: Configure and update your parameters.



By Browser

Step 1: Ready to login.

Step 2: Configure your parameters.



Step 3: Finish and reboot.