PL-RNet DI/RO TO ETHERNET CONVERTER

DESCRIPTION

Ethernet Relay I/O PL-RNet is an ideal product to make data acquisition easier through Modbus/TCP protocol on an existing Ethernet network. With Ethernet I/O PL-RNet, the controlling and monitoring of distributed control system can be easily accomplished.

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

- Supports ARP, ICMP, TCP, UDP, IP, DHCP, HTTP, Modbus/TCP, and 10Base-T Ethernet standard
- Supports Web Based interface for fast configuration without special software, also command mode for parameters setting by application software.
- Supports Modbus/TCP for easy integration with HMI/SCADA or OPC server
- Supports Winsock networking and optional "Virtual serial ports" driver for windows application program

■ APPLICATIONS

It is easy to convert DI status and Relay control to Ethernet in IA, Factory Automation, Security or any other low data rate data transmission by using it as the intermediate converter.

- Security devices
- Warehouse terminals
- Access control terminals

ORDERING INFORMATION

PL-RNet- VO type & - Aux. numbers - Powered

DIGITAL IN / OUT CODE AUX. POWERED CODE 8 points 24V input / D24 DC 24V 18/R6 6 Relay output

TECHNICAL SPECIFICATION

005

<u>CPU:</u>	8051
Network interface:	10 BASE-T, RJ-45 connector
Protocol:	ARP, ICMP, TCP, UDP, IP, DHCP Client, HTTP,
	Modbus/TCP Slave.
Reset:	Built-in reset key to restore the defaults
Watch dog timer:	Built-in hardware auto reset function
DI & RO	8 DI & 6 RO available
Digital input:	photo-couple, 24V±10%, 7mA
	ON status:12V/2.0mA or higher
	OFF status: 4V/1.0mA or lower
	Response: 8 msec or less
Relay output:	Relay, Form A: 3A/250V
	photo-couple Isolation with CPU
	Max switching freg : 3600 times/hour
	max ontoning roun
LED indication:	SYS: Red high bright round LED
	Link: Green high bright round LED
	RO(Relay output): 6 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:	< 11//
i ower consumption.	- 177

Electrical

Isolation: Dielectric Strength: Insulation resistance:

Isolated between DI, RO and Ethernet (RJ45) 3 KV, 1 minute; between Serial ports / RJ45 / Power ≥100MΩ at 500Vdc, Between Serial ports / RJ45 / Power

Time recorders

- Shop floor automation terminals

Environmental

Operating temp.: Operating humidity: Storage Temp.:

20~95 %RH, non-condensing -10~70 °C

0~60 °C

Mechanical **Case Materiel:**

Mounting: Terminal block: Weight:

ABS fire-protection (UL 94V-0) Surface mounting Plastic NYLON 66 (UL 94V-0) 150a

DIMENSIONS



Low Cost Solution







By Browser

Step 1: Ready to login.



Step 2: Configure your parameters



Step 3: Finish and reboot



MODBUS ADDRESS FOR DI/RO

The DI/RO points of the PL-RNet can easily be controlled and monitored through Modbus protocol. The Modbus address mapping with DI/RO is described as the followings.

Digital Output

The 6-points or 8-points digital output of PL-DNet is mapped with the Modbus holding register "40001". The following table describes the exact bit-mapping for Modbus holding register "40001".

NAME	ADDRESS	EXPLAN	Write/Read
RO	40001	RO status bit0~bit5: RO1~RO6 0 = off 1 = on	W/R

Digital Input

The 8-points digital input of PL-RNet is mapped with the Modbus holding register "40002". The following table describes the exact bit-mapping for Modbus holding register "40002".

		0 0	
NAME	ADDRESS	EXPLAN	Write/Read
DI	40002	DI status bit0~bit7: DI1~DI8 0 = off 1 = on	W/R