PETL-7060 Ethernet IO Module



Relay Output & Digital Input

Feature

- IEEE 802.3af-compliant Power over Ethernet (PoE)
- Built-in web server
- Modbus TCP /UDP protocols
- ESD protection
- Built-in dual watchdog
- 10/100 Base-TX Ethernet
- I/O pair connection
- DO type: 6 power relays (form A)
- DI type: 6 wet contacts (sink, source)











Introduction

Power over Ethernet (PoE) allows power and data to be carried over a single Ethernet cable, so a device can operate solely from the power it receives through the data cable. This innovation allows greater flexibility in office design, higher efficiency in systems design, and faster turnaround time in set-up and implementation.

The PETL-7060 features true IEEE 802.3af-compliant (Class 1) PoE using both Ethernet pairs (Category 5 Ethernet cable).

The PETL-7060 can receive power from an auxiliary power sources like AC adapters and battery in addition to the PoE enabled network. This is a desirable feature when the total system power requirements exceed the PSE's load capacity. Furthermore, with the auxiliary power option, the

Application

Building Automation, Factory Automation, Machine Automation , Remote Maintenance, Remote diagnosis and Testing Equipment.

I/O Specifications

Relay Outp	ut			
Output Channels 6		6		
Output Type Po		Pov	ver Relay, Form A (SPST N.O)	
		250	250 Vac/ 30 Vdc (Max.)	
MAX Load Current 5		5.0	5.0A/channel at 25°C	
Operate Time		6 m	6 ms	
Release Time		3 m	3 ms	
Electrical	VDE 5/		A 250 Vac 30,000 ops (10 ops/minute) at 75 °C	
Life		5A 30 Vac 70,000 ops (10 ops/minute) at 75 °C		
(Resistive			5A 250 Vac/30 VDC 6,000 ops	
Load)			250 Vac/30 Vbc 100,000 ops	
Mechanical Life 20,		20,0	000,000 ops At no load (300 ops/minute)	
Digital Inpu	ıt			
Input Channels			6	
Input Type			Wet Contact (Sink, Source)	
On Voltage	Level		+10 VDC ~ +50 VDC	
Off Voltage	Level		+4 Vpc Max.	
Input Impe	dance		10 KOhm	
	Max. Count		4,294,967,285(32 bits)	
Counters	Max. Input		500 Hz	
	Frequency			
	Min Pulse Width		1 ms	
Overvoltage Protection		ion	+70 Vpc	

PETL-7060 can be used in a standard Ethernet (non-PoE) system.

The PETL-7060 is an Ethernet I/O module, and features a web server providing configuration, I/O monitoring and control by simply using a web browser. The PETL-7060 offers easily and safely access for users from anytime and anywhere! In addition, the PETL-7060 also supports Modbus TCP /UDP protocols that make perfect integration for PETL-7060 to SCADA software.

The PETL-7060 provides 6 power relay (form A) output and 6 isolated wet contact (sink, source type) digital input channels. Each power relay supports contact rating as 5 A @ 250 VAC or 5 A @ 30 VDC and each digital input channel supports counter input.

System Specifications_____

0 1			
System			
CPU		Powerful 32-bit MCU	
SRAM		64 KB	
Flash Me	emory	256 KB	
Dual Wa	tchdog	Yes	
Commun	nication		
PoE Ethernet Port		10/100 Base-TX, 8-pin RJ-45 x 1, (Auto-negotiating, Auto-MDI/MDIX, LED indicator), PoE (IEEE 802.3af, Class 1)	
Isolation			
I/O	DI	3750 Vrms	
1/0	Relay Output	3000 Vrms	
LED Indi	icators		
PoE		PoE On	
L1		Run	
L2		Link/Act	
L3		10/100M	
Power R	equirements		
Power Ir	put	PoE: IEEE 802.3af, Class 1	
		Terminal block: +12 ~ 48 VDC (non-regulated)	
Power C	onsumption	0.06A @ 24 Vpc Max	
Mechani			
Dimensi	ons (W x L x H)	72 mm x 123 mm x 35 mm	
Installation		DIN-Rail or Wall mounting	
Environr	ment		
Operating Temperature		-25 °C ~ +75 °C	
Storage Temperature		-30 °C ~ +80 °C	
Humidity		5 ~ 90% RH, non-condensing	

Pin Assignment_

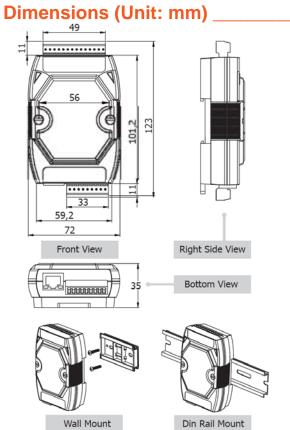
Terminal No.	Pin Assignment
Ē1	RJ-45
01	IN5
02	IN4
03	IN3
04	IN2
05	IN1
06	IN0
07	IN.COM
08	(R)Vs+
09	(B)GND



Terminal No.	Pin Assignment
23	RL5 COM
22	RL5 NO
21	RL4 COM
20	RL4 NO
19	RL3 COM
18	RL3 NO
17	RL2 COM
16	RL2 NO
15	RL1 COM
14	RL1 NO
13	RL0 COM
12	RL0 NO
11	N/A
10	N/A

Wiring_

Digital Output	Readback as 1	Readback as 0
	Relay On	Relay Off
Relay Output	RLx.COM Relay Close AC/DC LOAD To other channels	RLx.COM Relay Open AC/DC I To other channels
Digital Input	Readback as 1	Readback as 0
Sink	+10 ~ +50 V _{DC}	OPEN or <4 V _{DC}
	DI.COM To other channels	DIX 10K W To other channels
	+10 ~ +50 V _{DC}	OPEN or <4 V _{DC}
Source	DI.COM TO other channels	DIX 10K W To other channels



Ordering information_____

PETL-7060 CR

Ethernet I/O Module with PoE, 6-channel Power Relay D/O and 6-channel Isolated D/I (RoHS).

Accessories

NS-205PSE CR	Industrial 5-Port PoE Ethernet Switch (RoHS)
MDR-60-48	24V/1.25A, 60 W Power Supply with DIN-Rail