



PET-7052

8-channel Isolated Source Type Open Collector Output and 8-channel Isolated Digital Input Module with PoE

Features

- IEEE 802.3af-compliant Power over Ethernet (PoE)
- Built-in Web Server
- Communication Security
- Modbus/TCP Protocol
- 2-way Isolation/ESD Protection
- Built-in Dual Watchdog 10/100 Base-TX Ethernet
- I/O Pair Connection
- DO Type: 8 Isolation Open Collector (Source Type)
- DI Type: 8 Isolation Wet Contact (Sink, Source Type)











■ 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 PET-7052 feature true IEEE 802.3af-compliant (classification, Class 1) Power over Ethernet (PoE) using both Ethernet pairs (Category 5 Ethernet cable).

The PET-7052 can receives 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 PET-7060 can be used in a standard Ethernet (non-PoE) system

The PET-7052, a web-based PoE Ethernet I/O module, features a built-in web server, which allows configuration, I/O monitoring and I/O control by simply using a regular web browser. Besides, with the web IMII function, no more programming or HTML skills are needed; creating dynamic and attractive web pages for I/O monitoring and I/O control would be fun to engineers ever after. The PET-7052 offers easily and safely access for users from anytime and anywhere! In addition, the PET-7052 also supports Modbus/TCP protocol that makes perfect integration for PET-7052 to SCADA software.

The PET-7052 provides 8 isolated open collector (source type) output and 8 isolated wet contact (sink, source type) digital input channels. Each output channel supports 650 mA currnet driving @ $10 \sim 40 \text{ V}_{CC}$ and each digital input channel supports counter input (32 bits and 500 Hz Max.).

Applications

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

System Specifications

System		
CPU		80186 CPU (80 MHz)
SRAM		512 KB
Flash Me	mory	512 KB
EEPROM		16 KB
Dual Watchdog		Yes
Communica	ation	
PoE Ethernet Port		10/100 Base-TX (With link, activity led indicator) and auto MDI/MDI-X connection
2-Way Isola	ation	
Ethernet		1500 V _{rms}
I/O	DI	3750 Vrms
1/0	Relay Output	3000 V _{rms}
LED Indicat	tor	
PoE		PoE On
L1		Run
L2		Link/Act
L3		10/100M
Power Requ	uirements	
IEEE 802.3af		Class 1
Required Supply Voltage		Powered by Power-over-Ethernet (PoE) or auxiliary power +12 V∞ ~ +48 V∞ (non-regulated)
LED Indicator		Yes
Power Consumption		0.08 A @ 24 V _{DC} Max.
Mechanical		
Dimensions		123 mm x 72 mm x 35 mm (W x L x H)
Installation		DIN-Rail or Wall mounting
Environment		
Operating temperature		-25 °C ~ +75 °C
Storage temperature		-30 °C ~ +80 °C

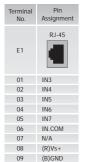
5 ~ 90% RH, non-condensing

I/O Specifications.

Digital Output		
Output Channels		8
Output Type		Source, Open Collector
Max. Load Current		650 mA/channel at 25 °C
Output Voltage		+10 V _{DC} ~ +40 V _{DC}
Over-Voltage Protection		+48 V _{DC}
Digital Input		
Input Channels		8
Input Type		Wet Contact (Sink, Source)
On Voltage Level Off Voltage Level Input Impedance		+10 Vpc ~ +50 Vpc
		+4 Voc Max.
		10 kΩ
	Max. Count	4,294,967,285 (32 bits)
	Max. Input	500 Hz
Counters	Frequency	
	Min. Pulse	1 ms
	Width	1 1113
Over-Voltage Protection		+70 V _{DC}

Humidity

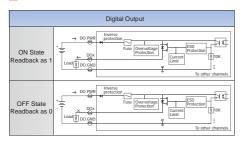
Pin Assignment _





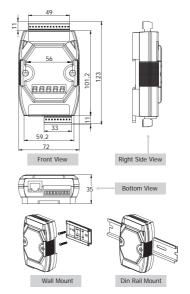
Terminal No.	Pin Assignment
23	IN2
22	IN1
21	INO
20	IN.COM
19	D07
18	DO6
17	DO5
16	DO4
15	DO3
14	DO2
13	DO1
12	DO0
11	DO.GND
10	DO.PWR

■Wire Connection —



Digital Input	Readback as 0	Readback as 1
	+10 ~ +50 Vpc	OPEN or <4 Vpc
Sink	Dix 10K	Dix 10K
	+10 ~ +50 Vpc	OPEN or <4 Vpc
Source	DI.COM TO Other channels	Dix 10K

■ Dimensions (Unit: mm) _



Ordering Information.

PET-7052 CR 8-channel Isolated Source Type Open Collector Output and 8-channel Isolated Digital Input Module with PoE (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 Mounting	

Related Products

Converters	USB, RS-232, Fiber Optical to RS-485 Converters and Repeaters
Power Supply	24 Voc Power Supply
Relay Module	External Relay Modules for PET-7000 DO Module

Learning Kit	Starter Learning Kit
Application Books	Application Books Designed with Our Products
Data Logger Software	User Friendly Data Logger Software (free)