

PET-7026

6-channel Analog Input, 2-channel Analog Output, 2-channel Digital Input And
2-channel Digital Output PoE Module



Model: PET-7026

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-7026 feature true IEEE 802.3af-compliant (classification, Class 1) Power over Ethernet (PoE) using both Ethernet pairs (Category 5 Ethernet cable). The PET-7026 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 PET-7026 can be used in a standard Ethernet (non-PoE) system.

The PET-7026, a web-based 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 HMI 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-7026 offers easily and safely access for users from anytime and anywhere! In addition, PET-7026 also supports Modbus/TCP protocol that makes perfect integration to SCADA software.

The PET-7026 is a multi-function module, there are 6-channel analog inputs, 2-channel analog output, 2-channel digital inputs and 2-channel digital outputs module. It provides programmable input range on all analog inputs(+/-500mV, +/-1V, +/-5V, +/-10V, +/-20mA, 0~20mA and 4~20mA), analog outputs are 12 bit with +/-5V, +/-10V, 0~20mA and 4~20mA and digital output can be set alarm output. Each analog input is allowed to configure an individual range and has 240 Vrms high over voltage protection. Jumper selectable for voltage or current inputs/outputs.

Features

- Built-in Web Server
- Communication Security
- 2-way Isolated Noise/Surge Protection
- Modbus/TCP Protocol
- Built-in Dual Watchdog
- 10/100 Base-TX Ethernet
- I/O Pair Connection
- AI: 6 (mV, V, mA)
- AO: 2 (V, mA)
- DO: 2 (Open Collector Output)
- DI: 2 (Dry+Wet)



Applications

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

Specifications

Analog Input

Input Channels		6 (Differential)
Input Type		+/-500 mV, +/-1V, +/-5 V, +/-10 V +0 mA ~ +20 mA, +/-20 mA, 4 ~ 20 mA (Jumper Selectable)
Resolution	Normal Mode	16-bit
	Fast Mode	12-bit
Sampling Rate	Normal Mode	10 Samples/Sec.
	Fast Mode	60 Samples/Sec. (Total)
Accuracy	Normal Mode	+/-0.1%
	Fast Mode	+/-0.5% or better
Bandwidth	Normal Mode	15.7 Hz
	Fast Mode	78.7 Hz
Zero Drift		+/-20 uV/°C
Span Drift		+/-25 ppm/°C
Input Impedance		Voltage Input: 2M Ohm, Current Input: 125 Ohm
Common Mode Rejection		86 dB Min.
Normal Mode Rejection		100 dB
Open Wire for Current Output		4 ~ 20mA
Overvoltage Protection		240 Vrms
ESD Protection		+/-4 kV (Contact for each channel) +/-8 kV air for random point
EFT Protection		+/-4 kV for Power

Analog Output



Output Channels	2
Span Drift	+0 V~ +5 V, +/-5 V, +0 V~ +10 V, +/-10 V,+0 mA ~ +20 mA, +4 mA ~ +20 mA (jumper selectable)
Resolution	12-bit
Accuracy	+/-0.1% of FSR
Voltage Output Capability	100 dB
Current Load Resistance	500 Ohms
Power-Up and SafeValue	Yes
Open Wire for Current Output	4 ~ 20mA
Digital Output	
Output Channels	2 (Sink)
Output Type	Isolated Open Collector
Max Load Current	700 mA/Channel
Load Voltage	+5 VDC ~ +50 VDC
External Power Reversed Protection and Short Circuit Protection	Yes
Over-Temperature Protection	Yes, 150°C
Current limited Protection	1.1 A
Digital Input	
Input Type	2 (Dry+Wet)
On Voltage Level	Close to GND
Dry Contact(Source) Off Voltage Level	Open
Effective Distance for Dry Contact	500M Max.
On Voltage Level	+1 VDC Max.
Wet contact Off Voltage Level	+3.5 VDC ~ +30 VDC
Channels	2
Max. Counts	16-bit (65535)
Counters Max. Input Frequency	100 Hz
Min. Pulse Width	5 ms
System	
CPU	80186 CPU (80 MHz)
SRAM	512 KB
Flash Memory	512 KB
EEPROM	16 KB
Dual Watchdog	Yes
Communication	
Ethernet Port	10/100 Base-TX (With Link, Activity LED Indicator) Automatic MDI/MDI-X
LED Indicator	
PoE	PoE On
L1	Run
L2	Link/Act
L3	10/100 M
2-way Isolation	
Ethernet	1500 VDC
AI, AO,DI and DO	2500 Vrms
Power Requirements	
IEEE 802.3af	Class 1
Required Supply Voltage	Powered by Power-Over-Ethernet (PoE) or auxiliary power +12 ~ 48 VDC(non-regulated)

LED Indicator	Yes
Power Consumption	0.12 A @ 24 VDC Max.
Mechanical	
Dimensions (W x H x D)	72 mm x 123 mm x 35 mm
Installation	DIN-Rail or Wall mounting
Environment	
Operating Temperature	-25 ~ +75 °C
Storage Temperature	-30 ~ +80 °C
Relative Humidity	5 ~ 90% RH, non-condensing

Ordering information

PET-7026 CR 6-channel Analog Input, 2-channel Analog Output, 2-channel Digital Input And 2-channel Digital Output PoE Module (RoHS)

Accessories

NS-205PSE CR	Industrial 5-Port PoE Ethernet Switch
NS-208PSE CR	Industrial 8-port 10/100Mbps Ethernet with 8-port PoE Switch
NS-208PSE-4 CR	Industrial 8-port 10/100Mbps Ethernet with 4-port PoE Switch
NS-205PSE-24V CR	Industrial 5-port 10/100Mbps Ethernet with 4-port PoE Switch; 24 VDC Input
MDR-60-48	48 V/1.25 A, 60 W Power Supply with DIN-Rail Mounting
DIN-KA52F-48	48 V/0.52 A, 25 W Power Supply with DIN-Rail Mounting