



Ethernet I/O Modules



DI and DO Module

Features

- PoE and Regular Ethernet Options
- Built-In Web Server
- Web HMI
- Modbus/TCP, Modbus/UDP Protocol
- Communication Security
- Dual Watchdog
- Operating Temperature: -25 ~ +75 °C
- I/O Pair Connection
- Built-In I/O
 - DI/Counter: 12 Channels
 - DO: 6 Channels



Introduction

The ET-7000/PET-7000, 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. Remote control is as easy as surfing the Internet.

Besides, with the web HMI function, no more programming or HTML skills are required; creating dynamic and attractive web pages for I/O monitoring and I/O control would be fun to engineers ever after. The ET-7000/PET-7000 offers easy and safe access for users from anytime and anywhere! In addition, the ET-7000/PET-7000 also supports Modbus/TCP protocol that makes perfect integration to SCADA software.

Furthermore, PET-7000 features "PoE" that not only data but also power is carried through an Ethernet cable. This feature makes installation of PET-7000 a piece of cake. Imagine that no more unnecessary wires, only an Ethernet cable takes care of everything in the field.

Applications

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

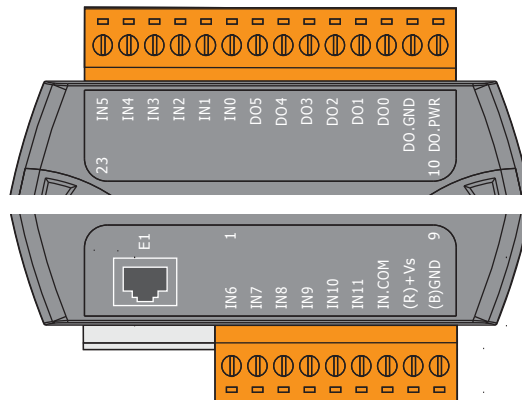
System Specifications

Models	ET-7050	PET-7050
Software		
Built-In Web Server	Yes	
Web HMI	Yes	
I/O Pair Connection	Yes	
Communication		
Ethernet Port	10/100 Base-TX with Auto MDI/MDI-X	
Protocol	Modbus/TCP, Modbus/UDP	
Security	ID, Password and IP Filter	
Dual Watchdog	Yes, Module (0.8 second), Communication (Programmable)	
LED Indicators		
L1 (System Running)	Yes	
L2 (Ethernet Link/Act)	Yes	
L3 (Ethernet 10/100 M Speed)	Yes	
PoE Power	-	Yes
2 Way Isolaiton		
Ethernet	1500 V _{dc}	-
I/O	3750 V _{rms}	3750 V _{rms}
EMS Protection		
ESD (IEC 61000-4-2)	4 kV Contact for each terminal	
EFT (IEC 61000-4-4)	+/-2 kV for Power	
Power Requirements		
Reverse Polarity Protectionn	Yes	
Powered from terminal block	Yes, 10 ~ 30 V _{dc}	Yes, 12 ~ 48 V _{dc}
Powered from PoE	-	Yes, IEEE 802.3af, Class1
Consumption	2.4 W	4.3 W
Mechanical		
Dimensions (W x L x D)	72 mm x 123 mm x 35 mm	
Installation	DIN-Rail or Wall mounting	
Environment		
Operating Temperature	-25 °C ~ +75 °C	
Storage Temperature	-30 °C ~ +80 °C	
Humidity	10 ~ 90% RH, non-condensing	

I/O Specifications

Models		ET-7050	PET-7050
Digital Input/Counter			
Input Channels		12	
Type		Wet Contact (Sink, Source)	
On Voltage Level		+10 V _{DC} ~ +50 V _{DC}	
Off Voltage Level		+4 V _{DC} Max.	
Input Impedance		10 kΩ	
Counters	Max. Count	4,294,967,285 (32 bits)	
	Max. Input Frequency	500 Hz	
	Min. Pulse Width	1 ms	
Overvoltage Protection		+70 V _{DC}	
Digital Output			
Output Channels		6	
Type		Isolated Open Collector (Sink)	
Max. Load Current		100 mA/channel at 25 °C Direct drive power relay module	
Load Voltage		+5 V _{DC} ~ +30 V _{DC}	
Overvoltage Protection		-	60 V _{DC}
Overload Protection		-	1.3 A
Short-circuit Protection		-	Yes
Power On Value		Yes, Programmable	
Safe Value		Yes, Programmable	

Pin Assignment



Wire Connection

Digital Input/Counter	Readback as 1 +10 ~ +50 Vdc	Readback as 0 OPEN or <4 Vdc
Sink		
Source		
Output Type	ON State Readback as 1	OFF State Readback as 0
Drive Relay		
Resistance Load		

Ordering Information

ET-7050 CR	12-channel DI and 6-channel DO with 32-bit Counters (RoHS)
PET-7050 CR	12-channel DI and 6-channel DO with 32-bit Counters PoE Module (RoHS)

Accessories

NS-205 CR	Unmanaged 5-port Industrial Ethernet Switch; requires 24 Vdc Input (RoHS)
NS-205PSE CR	Unmanaged Ethernet switch with 4-PoE and 1 RJ45 uplink; requires 48 Vdc Input (RoHS)
NS-205PSE-24V CR	Unmanaged Ethernet switch with 4-PoE and 1 RJ45 uplink; requires 24 Vdc Input (RoHS)
MDR-20-24 CR	24V/1A, 24 W Power Supply with DIN-Rail Mounting (RoHS)
DIN-KA52F-48 CR	48V/0.52A, 25 W Power Supply with DIN-Rail Mounting (RoHS)