DI 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: 16 Channels

ET-7053
Regular Ethernet Version

PET-7053
PoE Version

☑ 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.
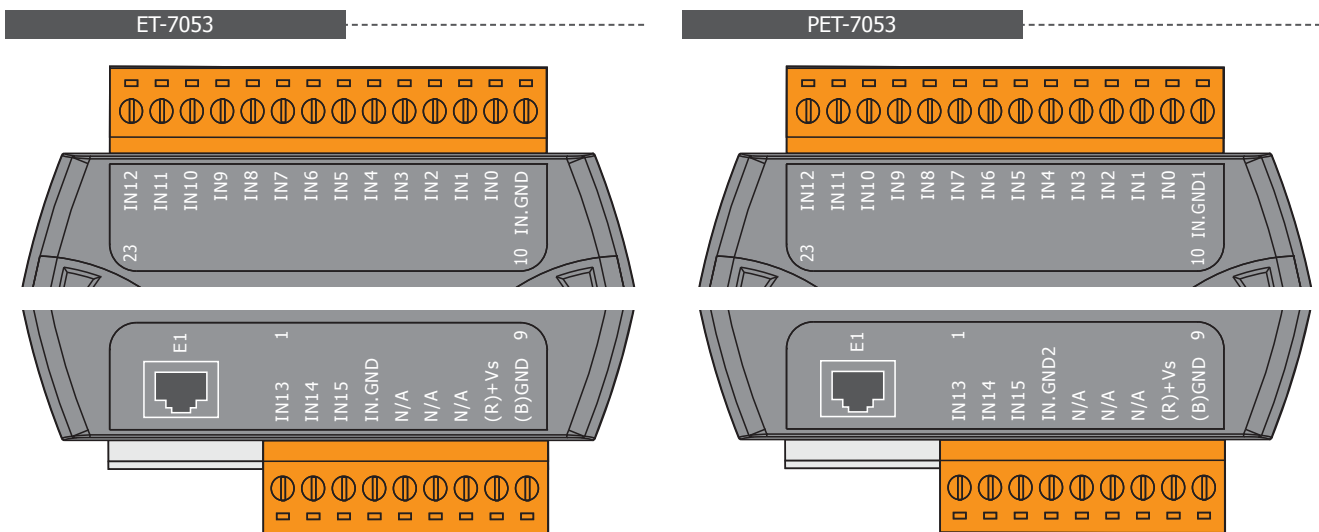
☑ System Specifications

Models	ET-7053	PET-7053
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

Digital Input/Counter		
Input Channels	16	
Type	Dry Contact (Source)	
On Voltage Level	Open	
Off Voltage Level	Close to GND	
Counters	Max. Count	4,294,967,285 (32 bits)
	Max. Input Frequency	500 Hz
	Min. Pulse Width	1 ms
Overvoltage Protection	-	
Effective Distance	500 M max.	

Pin Assignment

ET-7053

PET-7053

Wire Connection

Digital Input/Counter	ON State Readback as 1	OFF State Readback as 0
Dry Contact	Relay Open — IN.GND INx	Relay Close — IN.GND INx

Ordering Information

ET-7053 CR	16-channel Isolated Digital Input Module with 32-bit Counters (RoHS)
PET-7053 CR	16-channel Isolated Digital Input Module with 32-bit Counters PoE Module (RoHS)

Accessories

NS-205 CR	Unmanaged 5-port Industrial Ethernet Switch; requires 24 V_{DC} Input (RoHS)
NS-205PSE CR	Unmanaged Ethernet switch with 4-PoE and 1 RJ45 uplink; requires 48 V_{DC} Input (RoHS)
NS-205PSE-24V CR	Unmanaged Ethernet switch with 4-PoE and 1 RJ45 uplink; requires 24 V_{DC} 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)