



**ET-7052**  
**PET-7052**

**ET-7252**  
**PET-7252**

Ethernet I/O Module with 8-channels DI, 8-channels DO

### Features

- Built-in Web Server
- Web HMI
- Support for both Modbus TCP and Modbus UDP Protocols
- Communication Security
- 2-port Ethernet Switch for Daisy-Chain Topology
- Dual Watchdog
- Wide Operating Temperature Range: -25 ~ +75°C
- I/O Pair Connection
- Built-in I/O
  - DI/Counter: 8 Channels
  - DO: 8 Channels



### Introduction

The ET-7052/PET-7052/ET-7252/PET-7252 provides 8 wet contact digital input channels and 8 source-type digital output channels. It features optical isolation for 2500 Vdc of transient overvoltage protection but doesn't provide channel-to-channel isolation. Each input channel can be used as a 32-bit counter and each output channel can drive 650 mA load. The power-on value and safe value of digital output channel are programmable. It can safely be used in applications where hazardous voltages are present.

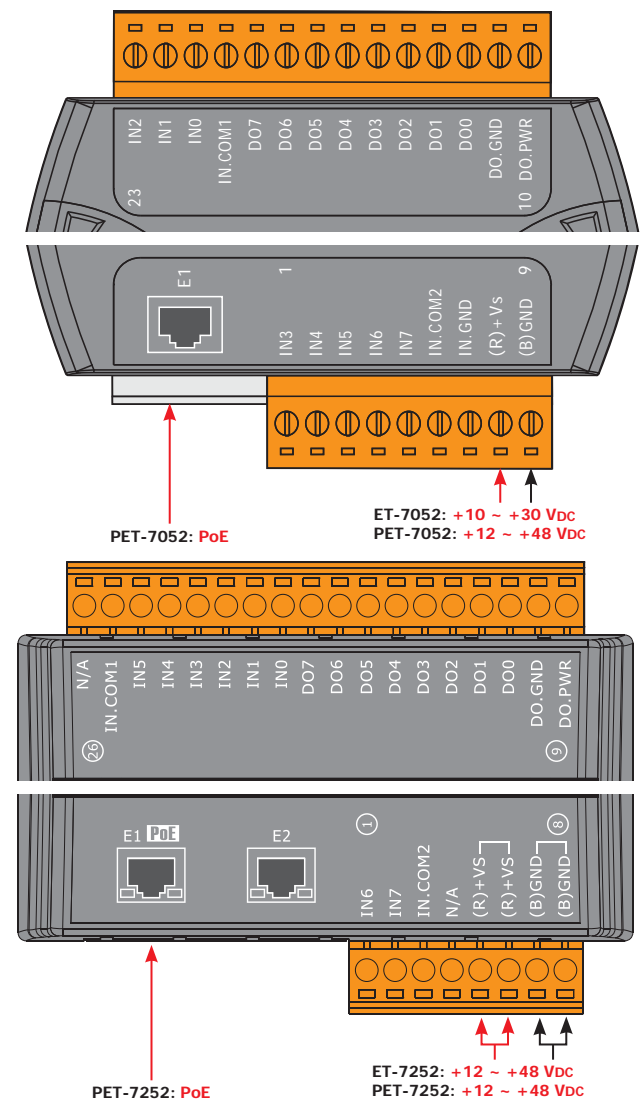
### System Specifications

Models	ET-7052	PET-7052	ET-7252	PET-7252
<b>Software</b>				
Built-in Web Server			Yes	
Web HMI			Yes	
I/O Pair Connection			Yes	
<b>Communication</b>				
Ethernet Port	1 x RJ-45, 10/100 Base-TX		2 x RJ-45, 10/100 Base-TX, Switch Ports	
PoE	-	Yes	-	Yes
Protocol	Modbus TCP, Modbus UDP			
Security	ID, Password and IP Filter			
Dual Watchdog	Yes, Module (0.8 seconds), Communication (Programmable)			
<b>LED Indicators</b>				
for System Running			Yes	
for Ethernet Link/Act			Yes	
for DI/DO status		-		Yes
for PoE Power	-	Yes	-	Yes
<b>2-Way Isolation</b>				
Ethernet	1500 Vdc	-	1500 Vdc	-
I/O	2500 Vdc		2500 Vdc	
<b>EMS Protection</b>				
ESD (IEC 61000-4-2)	±4 kV Contact for Each Terminal and ±8 kV Air for Random Point			
EFT (IEC 61000-4-4)	±4 kV for Power Line Line		±2 kV for Power Line	
Surge (IEC 61000-4-5)	±0.5 kV for Power Line		±2 kV for Power Line	
<b>Power</b>				
Reverse Polarity Protection			Yes	
Powered from Terminal Block	10 ~ 30 VDC	12 ~ 48 VDC	12 ~ 48 VDC	12 ~ 48 VDC
Powered from PoE	-	Yes, IEEE 802.3af, Class1	-	Yes, IEEE 802.3af, Class1
Consumption	2.5 W (Max.)	2.5 W (Max.)	3.4 W (Max.)	3.5 W (Max.)
<b>Mechanical</b>				
Dimensions (L x W x H)	123 mm x 72 mm x 35 mm		120 mm x 76 mm x 38 mm	
Installation	DIN-Rail or Wall Mounting			
<b>Environment</b>				
Operating Temperature	-25 ~ +75°C			
Storage Temperature	-30 ~ +80°C			
Humidity	10 ~ 90% RH, Non-condensing			

### I/O Specifications

Models	ET-7052	PET-7052	ET-7252	PET-7252
<b>Digital Input/Counter</b>				
Channels	8			
Contact	Wet Contact			
Sink/Source (NPN/PNP)	Sink/Source			
On Voltage Level	+10 Vdc ~ +50 Vdc			
Off Voltage Level	+4 Vdc Max.			
Input Impedance	10 kΩ			
Counters	Max. Count	4,294,967,295 (32 bits)		
	Max. Input Frequency	500 Hz	100 Hz	
	Min. Pulse Width	1 ms	5 ms	
Overvoltage Protection	+70 Vdc			
<b>Digital Output</b>				
Channels	8			
Type	Isolated Open Collector			
Sink/Source (NPN/PNP)	Source			
Max. Load Current	650 mA/channel at 25°C			
Load Voltage	+10 Vdc ~ +40 Vdc			
Overvoltage Protection	47 Vdc			
Overload Protection	-			
Short-circuit Protection	Yes			
Power-on Value	Yes, Programmable			
Safe Value	Yes, Programmable			

### Pin Assignments



### Wire Connections

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

### Ordering Information

<b>ET-7052 CR</b>	Ethernet I/O Module with 8-channels DI, 8-channels DO (RoHS)
<b>PET-7052 CR</b>	PoE Ethernet I/O Module with 8-channels DI, 8-channels DO (RoHS)
<b>ET-7252 CR</b>	Ethernet I/O Module with 2-port Ethernet Switch, with 8-channels DI, 8-channels DO (RoHS)
<b>PET-7252 CR</b>	PoE Ethernet I/O Module with 2-port Ethernet Switch, with 8-channels DI, 8-channels DO (RoHS)