



## ET-7065

## PET-7065

Ethernet I/O Module with 6-channel PhotoMOS Relay,  
6-channel DI

### Features

- Built-in Web Server
- Web HMI
- Support for both Modbus TCP and Modbus UDP Protocols
- Communication Security
- Dual Watchdog
- Wide Operating Temperature Range: -25 to +75°C
- I/O Pair Connection
- Built-in I/O
  - DI/Counter: 6 Channels
  - PhotoMOS Relay: 6 Channels



### Introduction

The ET-7065/PET-7065 provides 6 wet contact digital input channels and 6 form A PhotoMOS relays. It features optical isolation for 3000 Vrms of transient overvoltage protection and doesn't have channel-to-channel isolation. Each input channel can be used as a 32-bit counter. The power-on value and safe value of PhotoMOS relay are programmable. It can safely be used in applications where hazardous voltages are present.

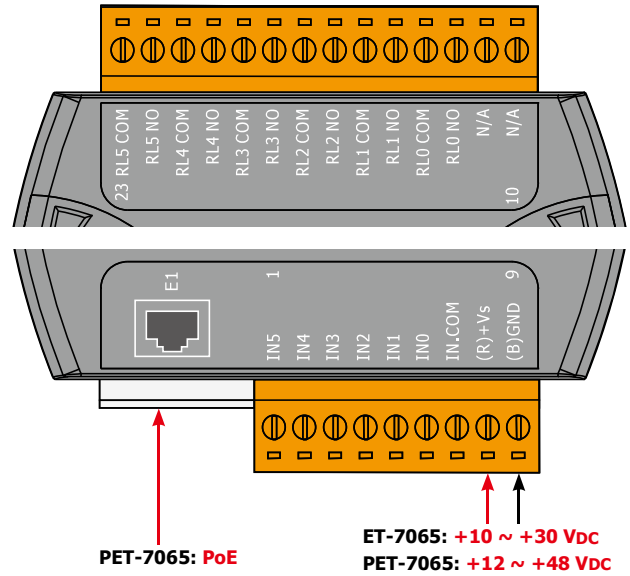
### System Specifications

Model	ET-7065	PET-7065
<b>Software</b>		
Built-in Web Server		Yes
Web HMI		Yes
I/O Pair Connection		Yes
<b>Communication</b>		
Ethernet Port	10/100 Base-TX with Auto MDI/MDI-X	
PoE	-	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>		
L1 (System Running)		Yes
L2 (Ethernet Link/Act)		Yes
L3 (Ethernet 10/100 M Speed)		Yes
PoE Power	-	Yes
<b>2-Way Isolation</b>		
Ethernet	1500 Vdc	-
I/O	3000 Vrms	3000 Vrms
<b>EMS Protection</b>		
ESD (IEC 61000-4-2)	4 kV Contact for Each Terminal	
EFT (IEC 61000-4-4)	±2 kV for Power	
<b>Power</b>		
Reverse Polarity Protection		Yes
Powered from Terminal Block	Yes, 10 ~ 30 VDC	Yes, 12 ~ 48 VDC
Powered from PoE	-	Yes, IEEE 802.3af, Class1
Power Output	-	-
Consumption	2.5 W (Max.)	3.0 W (Max.)
<b>Mechanical</b>		
Dimensions (L x W x H)	123 mm x 72 mm x 35 mm	
Installation	DIN-Rail or Wall Mounting	
<b>Environment</b>		
Operating Temperature	-25 to +75°C	
Storage Temperature	-30 to +80°C	
Humidity	10 to 90% RH, Non-condensing	

## I/O Specifications

Digital Input/Counter		
Channels	6	
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
	Min. Pulse Width	1 ms
Overvoltage Protection	+70 Vdc	
PhotoMOS Relay		
Channels	6	
Type	PhotoMOS Relay, Form A	
Load Voltage	60 Vdc/Vac	
Max. Load Current	60 V/1.0 A (Operating Temperature -25 ~ +40°C)	
	60 V/0.8 A (Operating Temperature +40 ~ +60°C)	
	60 V/0.7 A (Operating Temperature +60 ~ +75°C)	
Operate Time	1.3 ms (Typical)	
Release Time	0.1 ms (Typical)	
Power-on Value	Yes, Programmable	
Safe Value	Yes, Programmable	

## Pin Assignments



## Wire Connections

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

PhotoMOS Relay	ON State Readback as 1
Form A Relay Contact	
	OFF State Readback as 0

## Ordering Information

<b>ET-7065 CR</b>	Ethernet I/O Module with 6-channel PhotoMOS Relay, 6-channel Digital Input (RoHS)
<b>PET-7065 CR</b>	PoE Ethernet I/O Module with 6-channel PhotoMOS Relay, 6-channel Digital Input (RoHS)