



ETA-7060/PETA-7060

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

Features

- Built-in Web Server
- Support Modbus TCP/UDP and MQTT Protocols
- Support I/O Pair Connection (Push and Pull)
- Built-in Dual Watchdog
- Built-in I/O
 - DI/Counter: 6 Channels
 - Power Relay: 6 Channels



Introduction

The ETA-7060/PETA-7060 provides 6 wet contact digital input channels and 6 form A electromechanical relays. It features optical isolation for 3000 Vdc of transient overvoltage protection. Each input channel can be used as a 32-bit counter. The power-on value and safe value of relay are programmable.

Note: When inductive loads are connected to the relays, a large counter electromotive force may occur when the relay actuates because of the energy stored in the load. These flyback voltages can severely damage the relay contacts and greatly shorten the relay life. Limit these flyback voltages at your inductive load by installing a flyback diode for DC loads or a metal oxide varistor for AC loads.

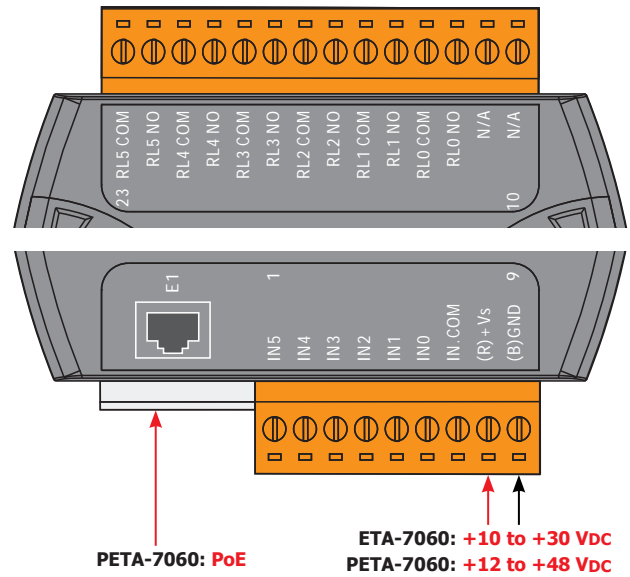
System Specifications

Model	ETA-7060	PETA-7060
Software		
Built-in Web Server	Yes	
CPU Module		
Watchdog Timer	Module, Communication (Programmable)	
2-Way Isolation		
Ethernet	1500 Vdc	-
I/O	3000 Vdc	
EMS Protection		
EFT (IEC 61000-4-4)	±2 kV for Power Line	
ESD (IEC 61000-4-2)	±4 kV Contact for Each Terminal and ±8 kV Air for Random Point	
Surge (IEC 61000-4-5)	±0.5 kV for Power Line	
LED Indicators		
Status	Run, Ethernet	Run, Ethernet, PoE
Ethernet		
Ports	1 x RJ-45, 10/100 Base-Tx	
PoE	-	Yes
Security	Password and IP Filter	
Protocol	Modbus TCP, Modbus UDP, and MQTT	
Power		
Reverse Polarity Protection	Yes	
Consumption	2.2 W	2.5 W
Powered from PoE	-	IEEE 802.3af, Class1
Powered from Terminal Block	+10 to +30 Vdc	+12 to +48 Vdc
Mechanical		
Dimensions (mm)	72 x 123 x 35 (W x L x H)	
Installation	DIN-Rail mounting	
Environment		
Operating Temperature	-25 to +75 °C	
Storage Temperature	-30 to +80 °C	
Humidity	10 to 90% RH, Non-condensing	

I/O Specifications

Model	ETA-7060	PETA-7060
Digital Input/Counter		
Channels	6	
Contact	Wet Contact	
Sink/Source (NPN/PNP)	Sink/Source	
On Voltage Level	+10 to +50 VDC	
Off Voltage Level	+4 VDC (max.)	
Max. Counts	4,294,967,295 (32-bit)	
Frequency	3 kHz	
Min. Pulse Width	1 ms	
Input Impedance	10 kΩ	
Overvoltage Protection	+70 VDC	
Relay Output		
Channels	6	
Type	Power Relay, Form A (SPST N.O.)	
Contact Rating	5 A @ 250 VAC/24 VDC (Resistive Load)	
Min. Contact Load	10 mA @ 5 V	
Operate Time	10 ms (max.)	
Release Time	5 ms (max.)	
Electrical Endurance	10 ⁵ ops.	
Mechanical Endurance	2 × 10 ⁷ ops.	
Power on Value	Programmable	
Safe Value	Programmable	

Pin Assignments



Wire Connections

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

Power Relay	ON State Readback as 1
Relay Output	OFF State Readback as 0

Ordering Information

ETA-7060 CR	Ethernet I/O Module with 6-channel Relay Output and 6-channel Digital Input (RoHS)
PETA-7060 CR	PoE Ethernet I/O Module with 6-channel Relay Output and 6-channel Digital Input (RoHS)