



ET-2242
PET-2242



ET-2242-32
PET-2242-32

(PoE) Ethernet I/O Module with 16/32-ch Sink-type DO

Features

- Built-in Web Server
- Support Modbus TCP/UDP, MQTT, and SNMP V2c Protocols
- 2-port Ethernet Switch (LAN Bypass) for Daisy-Chain Wiring
- Dual Watchdog
- I/O Pair Connection (Push and Pull)
- Built-in I/O
 - (P)ET-2242: 16-channel Sink-type DO
 - (P)ET-2242-32: 32-channel Sink-type DO
- LED Display to Indicate the I/O Status



Introduction

The (P)ET-2242/(P)ET-2242-32 provides 16/32 Digital Output channels, each of which features photo couple isolation. The (P)ET-2242/(P)ET-2242-32 supports sink type output with short circuit protection and each channel can drive 650/600 mA load. There are configurable power-on and safe values for digital output. With 2 Ethernet ports, the (P)ET-2242/(P)ET-2242-32 allows daisy chain connection which permits the flexibility in locating devices, eases installation and lowers infrastructure costs. It features 8 kV ESD protection, 4 kV EFT protection, 3 kV surge, and 3000 VDC I/O isolation to enrich the noise protection ability for industrial environment.

System Specifications

Model	ET-2242	ET-2242-32	PET-2242	PET-2242-32
Software				
Built-in Web Server	Yes			
CPU Module				
CPU	32-bit ARM			
Watchdog Timer	Module, Communication (Programmable)			
Isolation				
2-way Isolation	Ethernet: 1500 VDC, I/O: 3000 VDC		I/O: 3000 VDC	
EMS Protection				
EFT (IEC 61000-4-4)	±4 kV for Power Line			
ESD (IEC 61000-4-2)	±8 kV Contact for Each Terminal ±16 kV Air for Random Point			
Surge (IEC 61000-4-5)	±3 kV for Power Line			
LED Indicators				
Status	Run, Ethernet, I/O		Run, Ethernet, I/O, PoE	
Ethernet				
Ports	2 x RJ-45, 10/100 Base-Tx, Switch Ports			
PoE	-		Yes	
LAN bypass	Yes			
Security	Password and IP Filter			
Protocol	Modbus TCP, Modbus UDP, MQTT, and SNMP V2c			
Power				
Reverse Polarity Protection	Yes			
Consumption	3.5 W (max.)	3.7 W (max.)	4.1 W (max.)	4.2 W (max.)
Powered from PoE	-		IEEE 802.3af, Class2	IEEE 802.3af, Class1
Powered from Terminal Block	+10 to +30 VDC		+10 to +48 VDC	
Mechanical				
Casing	Plastic			
Dimensions (mm)	(P)ET-2242: 33 x 126 x 108 (W x L x H), (P)ET-2242-32: 31 x 157 x 126 (W x L x H)			
Installation	DIN-Rail Mounting			
Environment				
Operating Temperature	-25 to +75°C			
Storage Temperature	-40 to +80°C			
Humidity	10 to 90% RH, Non-condensing			

I/O Specifications

Model	(P)ET-2242	(P)ET-2242-32
Digital Output		
Channels	16	32
Type	Open Collector	
Sink/Source (NPN/PNP)	Sink	
Load Voltage	+3.5 to +50 VDC	
Load Current	650 mA/channel	600 mA/channel
Overvoltage Protection	+ 60 VDC	
Overload Protection	1.4 A (with short-circuit protection)	
Short Circuit Protection	Yes	
Power-on Value	Programmable	
Safe Value	Programmable	

Wire Connections

(P)ET-2242		
Output Type	ON State Readback as 1	OFF State Readback as 0
Inductive Load		
Resistance Load		

(P)ET-2242-32

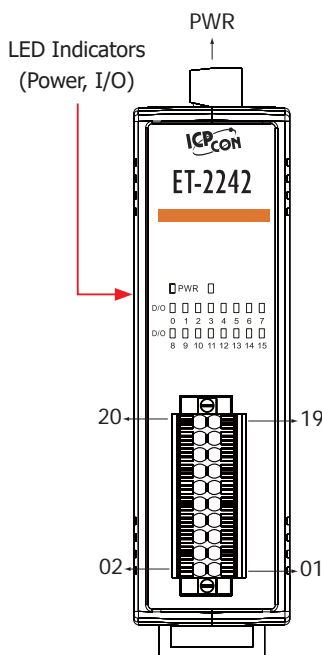
E.GND1: For DO0 - DO15

Output Type	ON State Readback as 1	OFF State Readback as 0
Inductive Load DO0 - DO15		
Resistance Load DO0 - DO15		

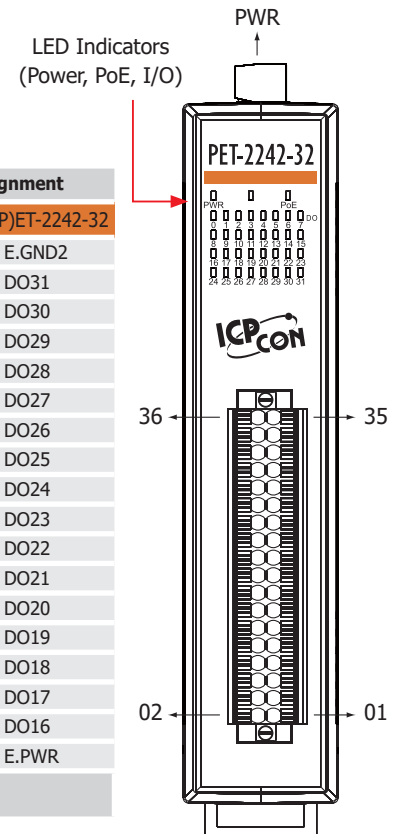
E.GND2: For DO16 - DO31

Output Type	ON State Readback as 1	OFF State Readback as 0
Inductive Load DO16 - DO31		
Resistance Load DO16 - DO31		

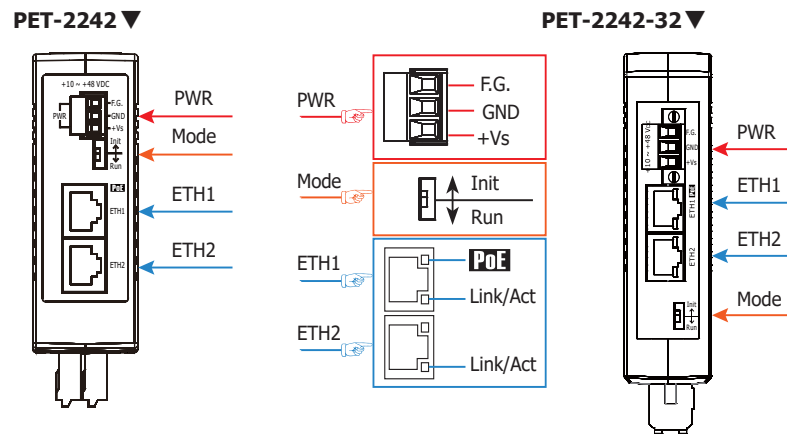
Pin Assignments



Pin Assignment		Terminal No.		Pin Assignment	
(P)ET-2242	(P)ET-2242-32			(P)ET-2242	(P)ET-2242-32
	E.GND1	36		35	E.GND2
	DO15	34		33	DO31
	DO14	32		31	DO30
	DO13	30		29	DO29
	DO12	28		27	DO28
	DO11	26		25	DO27
	DO10	24		23	DO26
	DO9	22		21	DO25
DO7	DO8	20		19	DO15
DO6	DO7	18		17	DO14
DO5	DO6	16		15	DO13
DO4	DO5	14		13	DO12
DO3	DO4	12		11	DO11
DO2	DO3	10		09	DO10
DO1	DO2	08		07	DO9
DO0	DO1	06		05	DO8
E.PWR	DO0	04		03	E.PWR
E.GND	E.PWR	02		01	E.GND

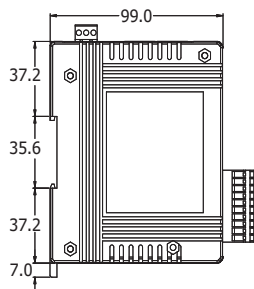


Appearance

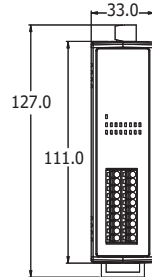


Dimensions (Units: mm)

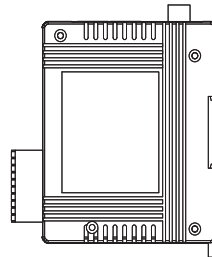
(P)ET-2242



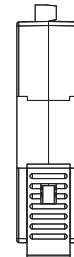
Left Side View



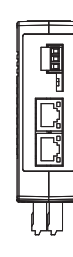
Front View



Right Side View



Rear View

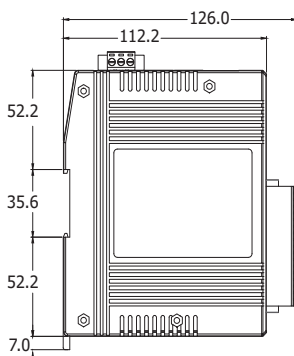


Top View

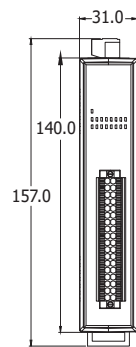


Bottom View

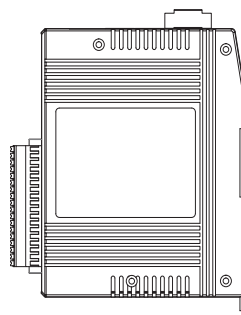
(P)ET-2242-32



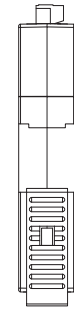
Left Side View



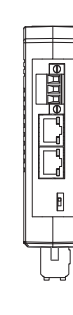
Front View



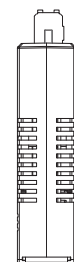
Right Side View



Rear View



Top View



Bottom View

Ordering Information

ET-2242 CR	Ethernet I/O Module with 2-port Ethernet Switch and 16-ch Sink-type DO (RoHS)
PET-2242 CR	PoE Ethernet I/O Module with 2-port Ethernet Switch and 16-ch Sink-type DO (RoHS)
ET-2242-32 CR	Ethernet I/O Module with 2-port Ethernet Switch and 32-ch Sink-type DO (RoHS)
PET-2242-32 CR	PoE Ethernet I/O Module with 2-port Ethernet Switch and 32-ch Sink-type DO (RoHS)