

ET-2252



PET-2252

Ethernet I/O Module with Universal 16-ch DIO
(DI: Sink, DO: Source)

Features

- Web Server for Configuration
- Support Modbus TCP/UDP, MQTT, and SNMP V2c Protocols
- 2-port Ethernet Switch (LAN bypass) for Daisy-chain Wiring
- Supports Dual-watchdog
- I/O Pair Connection (Push and Pull)
- 16-ch programmable Universal DIO
- Provide Digital Output Maximum Load Current
  - 450 mA/channel
- LED Display to Indicate the I/O Status

Introduction

ET-2252 / PET-2252 is a 16-channel universal DIO module. Each channel can be set as a digital input or output, while each DO can drive a 450 mA load. The module includes a built-in 2-port Ethernet switch, facilitating a daisy-chain topology. This feature offers flexibility in device configuration, simplifies installation, and reduces infrastructure costs. Additionally, the module provides EMS (EFT/ESD/Surge) protection and 3000 VDC I/O Isolation to enhance noise protection capabilities in industrial environments. It also offers configurable DO Power-on value and safe value settings.

Redundant Power:
The modules support dual Power inputs (+10 to +48 VDC) for enhanced redundancy. If one source becomes inactive or is interrupted, the other immediately takes over to ensure uninterrupted operation in critical Environments

System Specifications

Model	ET-2252	PET-2252
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)	±4 kV Contact for Each Terminal, ±8 kV Air for Random Point	
Surge (IEC 61000-4-5)	±2 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	
Access Control	Password and IP Filter	
Protocol	Modbus TCP, Modbus UDP, MQTT, SNMP V2c	
Power		
Reverse Polarity Protection	Yes	

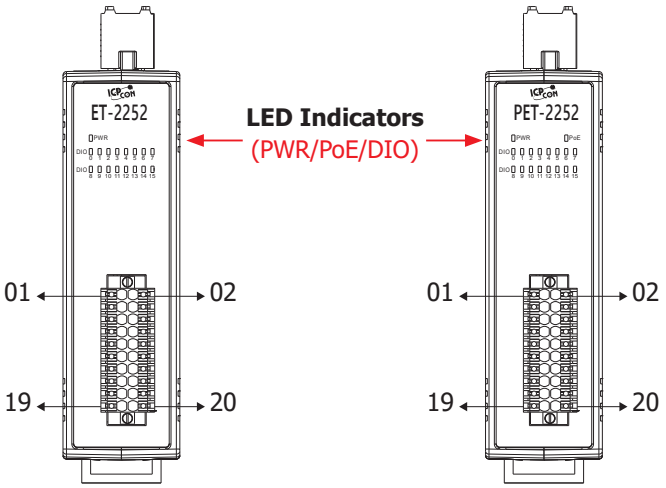
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Model	ET-2252	PET-2252
Consumption	3.6 W (max.)	3.9 W (max.)
Powered from PoE	-	IEEE 802.3af, Class1
Powered from Terminal Block	+10 ~ +48 VDC	
Mechanical		
Casing	Plastic	
Dimensions (mm)	33 x 135 x 109 (W x L x H)	
Installation	DIN-Rail Mounting	
Environment		
Operating Temperature	-25 ~ +75 °C	
Storage Temperature	-40 ~ +80 °C	
Humidity	10 ~ 90% RH, Non-condensing	

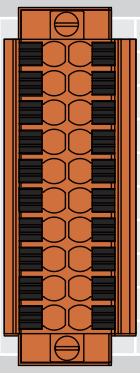
I/O Specifications

Model	ET-2252	PET-2252
Parallel I/O Module		
DI/DO Mode	By Web/Modbus Configuration	
I/O Channels	16	
Digital Input/Counter		
Type	Wet Contact	
Sink/Source (NPN/PNP)	Sink	
ON Voltage Level	+5 ~ +50 VDC	
OFF Voltage Level	+1 VDC (max.)	
Max. Counts	4,294,967,295 (32-bit)	
Frequency	3 kHz	
Input Impedance	7.5 kΩ	
Low Pass Filter	1 ~ 6500 ms (0.08 Hz ~ 500 Hz)	
Digital Output		
Type	Open Source	
Sink/Source (NPN/PNP)	Source	
Load Voltage	+5 ~ +50 VDC	
Load Current	450 mA/channel	
Power-on Value	Programmable	
Safe Value	Programmable	

Pin Assignments

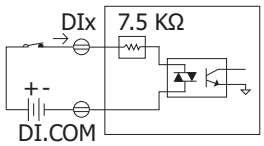
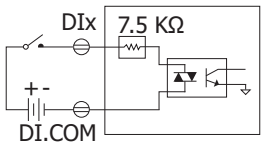


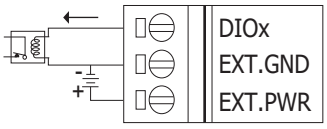
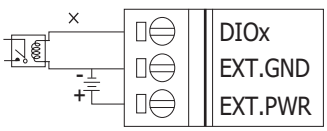
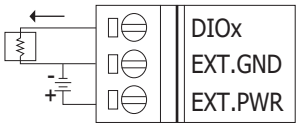
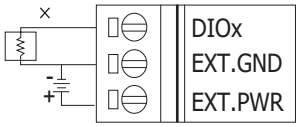
Pin Assignment	Terminal No.		Pin Assignment
DIO0	01	02	DIO8
DIO1	03	04	DIO9
DIO2	05	06	DIO10
DIO3	07	08	DIO11
DIO4	09	10	DIO12
DIO5	11	12	DIO13
DIO6	13	14	DIO14
DIO7	15	16	DIO15
EXT.PWR	17	18	EXT.PWR
DI.COM	19	20	EXT.GND



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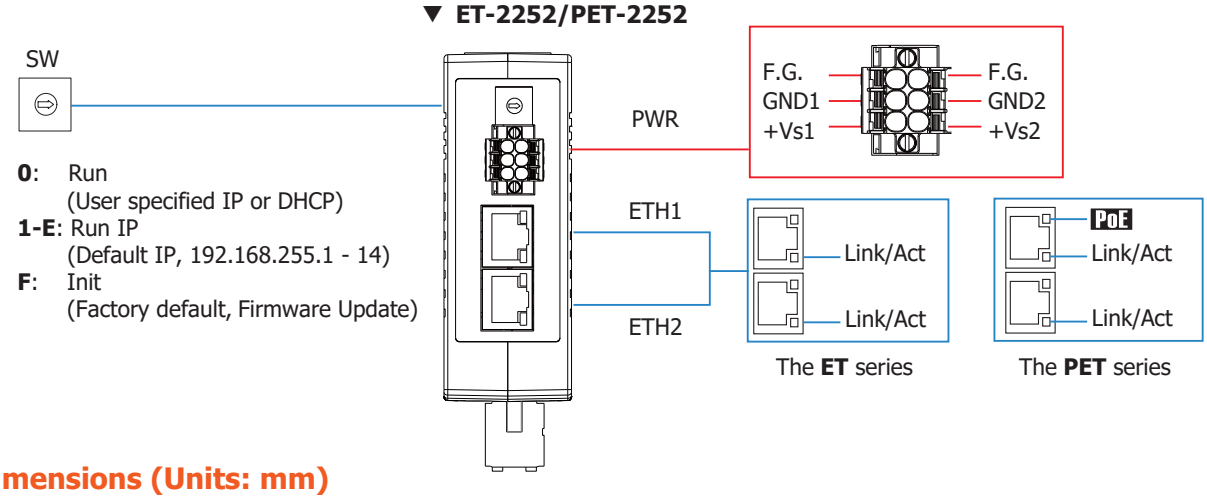
Wire Connections

Input Type	ON State LED ON, Readback as 1	OFF State LED OFF, Readback as 0
Wet Contact (Sink)	+5 ~ +50 VDC	OPEN or <1 VDC
		

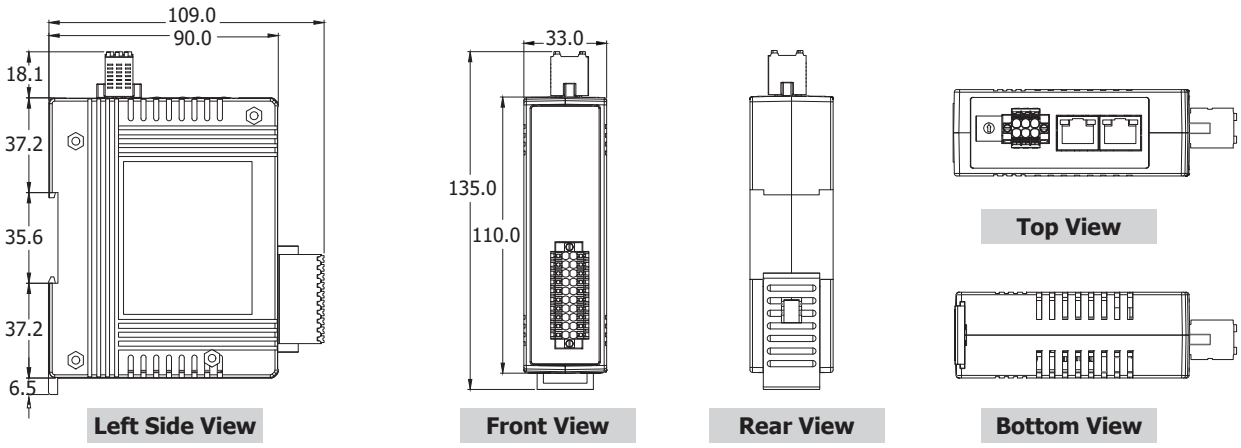
Output Type	ON State, Readback as 1	OFF State, Readback as 0
Inductive Load		
Resistance Load		

Appearance

▼ **ET-2252/PET-2252**



Dimensions (Units: mm)



Ordering Information

ET-2252 CR	Ethernet I/O Module with 2-port Ethernet Switch, Universal 16-ch DIO (RoHS)	DI: Sink DO: Source 450 mA max.
PET-2252 CR	PoE I/O Module with 2-port Ethernet Switch, Universal 16-ch DIO (RoHS)	

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