

ET-2261-16

Ethernet I/O Module with 16-ch Power Relay

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)
- Built-in I/O
  - 16-ch Relay Output (Form A)
- LED Display to Indicate the I/O Status

Introduction

ET-2261-16 is a 16-channel electroMechanical relay output (Form A) module. 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.

System Specifications

Model	ET-2261-16
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
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
Ethernet	
Ports	2 x RJ-45, 10/100 Base-Tx, Switch Ports
LAN bypass	Yes
Access Control	Password and IP Filter
Protocol	Modbus TCP, Modbus UDP, MQTT, SNMP V2c
Power	
Reverse Polarity Protection	Yes
Consumption	4.8 W (max.)
Powered from Terminal Block	+10 ~ +48 VDC

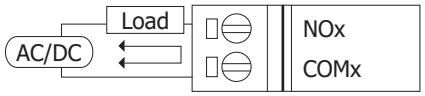
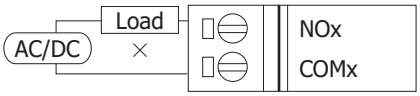
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Model	ET-2261-16
Mechanical	
Casing	Plastic
Dimensions (mm)	31 x 157 x 129 (W x L x H)
Installation	DIN-Rail Mounting
Environment	
Operating Temperature	-25 ~ +75 °C
Storage Temperature	-40 ~ +80 °C
Humidity	10 ~ 90% RH, Non-condensing

I/O Specifications

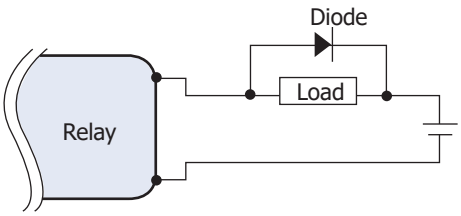
Relay Output	
Channels	16
Type	Power Relay, Form A (SPST N.O.)
Contact Rating	5 A @ 250 V_{AC}/24 V_{DC} (Resistive Load)
Operate Time	10 ms (max.)
Release Time	5 ms (max.)
Electrical Endurance	10^5 ops.
Mechanical Endurance	2×10^7 ops.
Power-on Value	Programmable
Safe Value	Programmable

Wire Connections

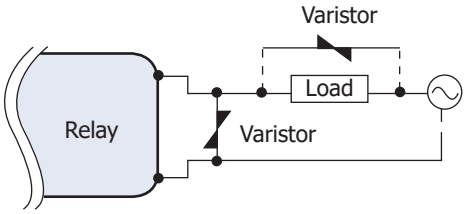
Relay Output	ON State Readback as 1	OFF State Readback as 0
Power Relay		

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.

For DC Loads

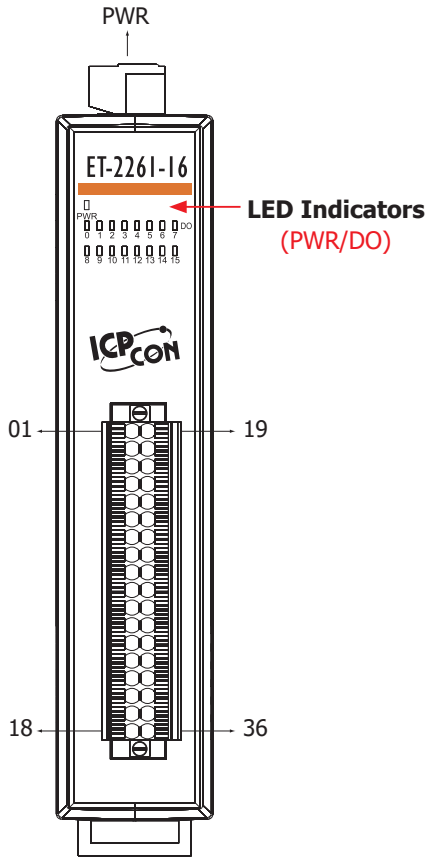


For AC Loads

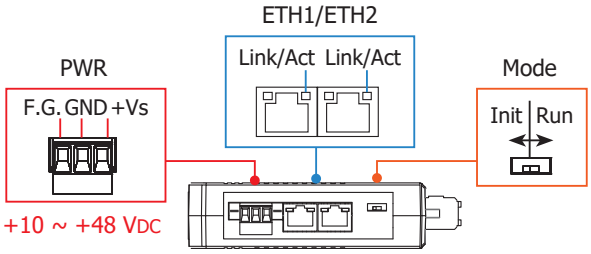


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Pin Assignments

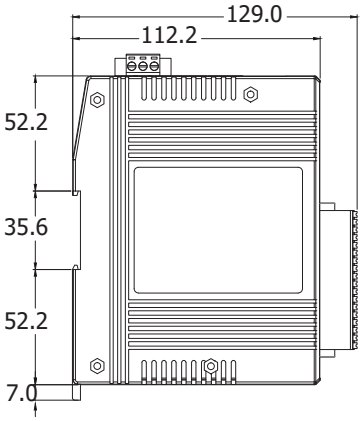


Appearance

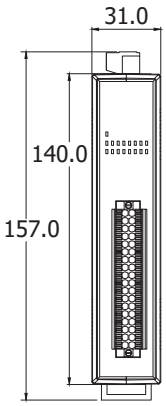


Pin Assignment	Terminal No.		Pin Assignment
NO0	01	19	COM0
NO1	02	20	COM1
NO2	03	21	COM2
NO3	04	22	COM3
NO4	05	23	COM4
NO5	06	24	COM5
NO6	07	25	COM6
NO7	08	26	COM7
N/A	09	27	N/A
N/A	10	28	N/A
NO8	11	29	COM8
NO9	12	30	COM9
NO10	13	31	COM10
NO11	14	32	COM11
NO12	15	33	COM12
NO13	16	34	COM13
NO14	17	35	COM14
NO15	18	36	COM15

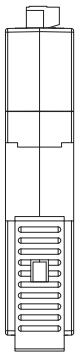
Dimensions (Units: mm)



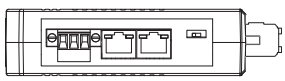
Left Side View



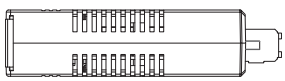
Front View



Rear View



Top View



Bottom View

Ordering Information

ET-2261-16 CR	Ethernet I/O Module with 2-port Ethernet Switch, 16-ch Power Relay (RoHS)

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