

ET-2261

Ethernet I/O Module with 10-ch Power Relay Output

Features

- Built-in Web Server
- Support Modbus TCP/UDP Protocols
- Powerful 32-bit MCU Handles Efficient Network Traffic
- 2-port Ethernet Switch (LAN Bypass) for Daisy-Chain Wiring
- Dual Watchdog
- I/O Pair Connection (Push and Polling)
- Easy Firmware Update via Ethernet
- LED Display to Indicate the I/O status
- Wide Operating Temperature Range: -25 ~ +75°C
- Built-in I/O 10 Power Relay Output Channels



Introduction

The ET-2261 provides 10 Form A electromechanical Relays Output channels. With 2 Ethernet ports, the ET-2261 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 V_{DC} I/O isolation to enhance noise protection capabilities in industrial environments.

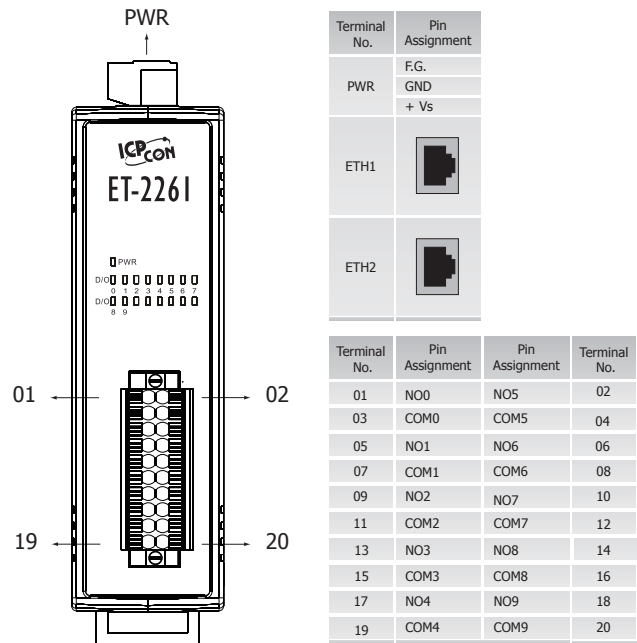
System Specifications

| System | |
|-----------------------------|---|
| CPU | 32-bit ARM |
| Communication | |
| Ethernet Port | 2 x RJ-45, 10/100 Base-TX, Switch Ports |
| Protocol | Modbus TCP, Modbus UDP |
| Security | Password and IP Filter |
| I/O Pair Connection | Yes (Push, Polling) |
| Dual Watchdog | Yes, Module, Communication (Configurable) |
| LAN Bypass | Yes |
| LED Indicators | |
| System Running | Yes |
| Ethernet Link/Act | Yes |
| DI/DO status | Yes |
| 2-Way Isolation | |
| Ethernet | 1500 V _{DC} |
| I/O | 3000 V _{DC} |
| EMS Protection | |
| ESD (IEC 61000-4-2) | ±8 kV Contact for Each Terminal and ±16 kV Air for Random Point |
| EFT (IEC 61000-4-4) | ±4 kV for Power Line |
| Surge (IEC 61000-4-5) | ±3 kV for Power Line |
| Power | |
| Reverse Polarity Protection | Yes |
| Powered from Terminal Block | +10 ~ +30 V _{DC} |
| Consumption | 3.3 W (Max.) |
| Mechanical | |
| Dimensions (L x W x H) | 127 mm x 33 mm x 99 mm |
| Installation | DIN-Rail Mounting |
| Environment | |
| Operating Temperature | -25 ~ +75°C |
| Storage Temperature | -30 ~ +80°C |
| Humidity | 10 ~ 90% RH, Non-condensing |

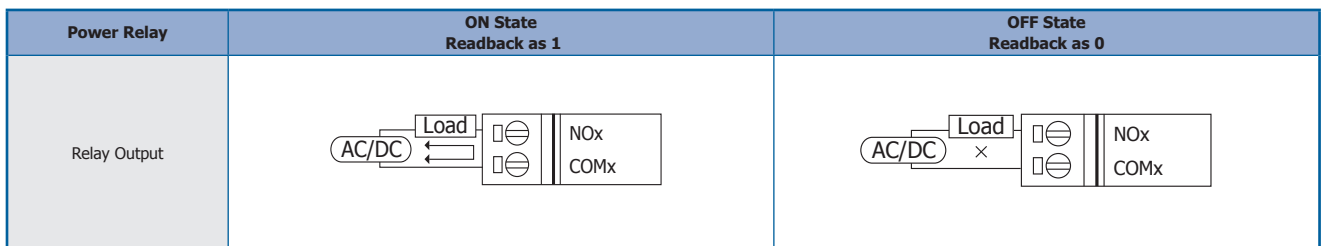
I/O Specifications

| Power Relay | |
|----------------------|---------------------------------------|
| Channels | 10 |
| 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.) |
| Mechanical Endurance | 2 × 10 ⁷ ops. |
| Electrical Endurance | 10 ⁵ ops. |
| Power-on Value | Yes, Configurable |
| Safe Value | Yes, Configurable |

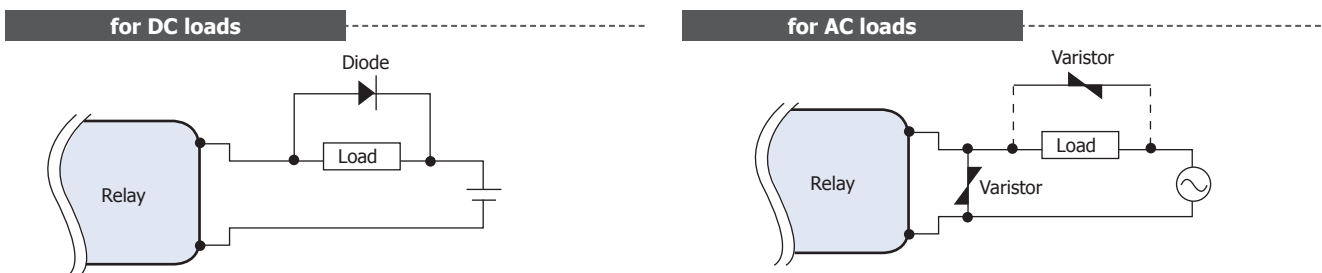
Pin Assignments



Wire Connections



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.



Ordering Information

| | |
|-------------------|--|
| ET-2261 CR | Ethernet I/O Module with 2-port Ethernet Switch, 10-ch Power Relay Output (RoHS) |
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Related Products

| | | |
|--|--------------|--|
| | NS-205 CR | Unmanaged 5-Port Industrial Ethernet Switch with Power Input +10 ~ +30 Vdc (RoHS) |
| | NS-208 CR | Unmanaged 8-port Industrial 10/100 Base-TX Ethernet Switch with Power Input +10 ~ +30 Vdc (RoHS) |
| | DIN-KA52F CR | 24 V/1.04 A, 25 W Power Supply with DIN-Rail Mounting (RoHS) |
| | GPSU06U-6 | 24 V/0.25 A (max.) Power Supply |