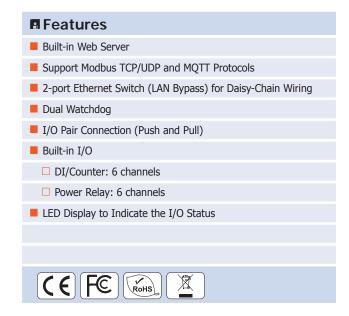
Slim Type Ethernet I/O Modules





ET-2260

Ethernet I/O Module with 6-ch DI and 6-ch Power Relay



■ Introduction

The ET-2260 provides 6 wet contact Digital Input channels and 6 Form A electromechanical Relays. With 2 Ethernet ports, the ET-2260 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 enhance noise protection capabilities in industrial environments. Each input channel can be used as a 32-bit counter. The power-on value and safe value of relay are configurable.

System Specifications

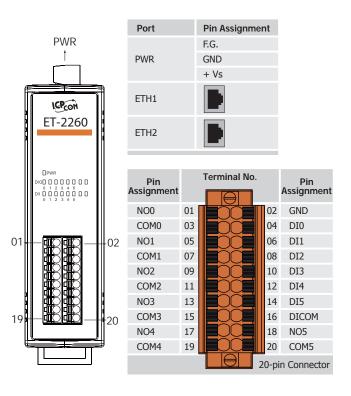
| Software | | | | | |
|-----------------------------|--|--|--|--|--|
| Built-in Web Server | Yes | | | | |
| CPU Module | | | | | |
| CPU | 32-bit ARM | | | | |
| Watchdog Timer | Module, Communication (Programmable) | | | | |
| Isolation | | | | | |
| 2-way Isolation | Ethernet: 1500 VDC I/O: 3000 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 | | | | |
| Security | Password and IP Filter | | | | |
| Protocol | Modbus TCP, Modbus UDP, and MQTT | | | | |
| Power | | | | | |
| Reverse Polarity Protection | Yes | | | | |
| Consumption | 3.3 W (max.) | | | | |
| Powered from Terminal Block | +10 to +30 VDC | | | | |
| Mechanical | | | | | |
| Casing | Plastic | | | | |
| Dimensions (mm) | 33 x 127 x 99 (W x L x H) | | | | |
| Installation | DIN-Rail Mounting | | | | |
| Environment | Environment | | | | |
| Operating Temperature | -25 to +75°C | | | | |
| Storage Temperature | -40 to +80°C | | | | |
| Humidity | 10 to 90% RH, Non-condensing | | | | |

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■ I/O Specifications

| Digital Input/Counter | | | |
|------------------------|--|--|--|
| Channels | 6 | | |
| Туре | Dry Contact Wet Contact | | |
| Sink/Source (NPN/PNP) | Dry: Source Wet: Sink/Source | | |
| ON Voltage Level | Dry: Close to GND Wet: +10 to +50 VDC | | |
| OFF Voltage Level | Dry: Open Wet: +4 VDC (max.) | | |
| Max. Counts | 4,294,967,295 (32-bit) | | |
| Frequency | 3 kHz | | |
| Input Impedance | 7.5 kΩ | | |
| Overvoltage Protection | +70 VDC | | |
| Low Pass Filter | 1 to 6500 ms (0.08 Hz to 500 Hz) | | |
| Power Relay | | | |
| Channels | 6 | | |
| Туре | Power Relay, Form A (SPST N.O.) | | |
| Contact Rating | 5 A @ 250 VAC/24 VDC (Resistive Load) | | |
| Operate Time | 10 ms (max.) | | |
| Release Time | 5 ms (max.) | | |
| Min. Contact Load | 10 mA @ 5 V | | |
| Electrical Endurance | 10 ⁵ ops. | | |
| Mechanical Endurance | 2 × 107 ops. | | |
| Power-on Value | Programmable | | |
| Safe Value | Programmable | | |

Pin Assignments



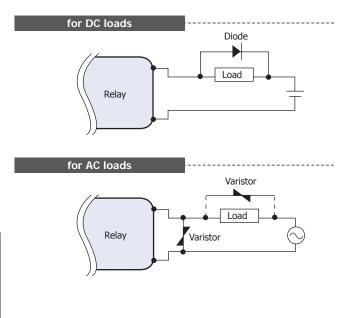
Wire Connections

| Digital Input /Counter | Readback as 1 | Readback as 0 |
|---------------------------|----------------|-----------------------|
| Dry Contact | Close to GND | Open |
| | GND +S5 V | SND + + + 55 V DIX |
| Wet Contact (Sink) | +10 to +50 VDC | OPEN or <4 VDC |
| | DIX 7.5K | DIX 7.5K |
| Wet Contact (Source) | +10 to +50 VDC | OPEN or <4 VDC |
| | DIX 7.5K | DIX 7.5K |

| Power Relay | ON State Readback as 1 | |
|--------------|----------------------------|--|
| Relay Output | AC/DC Load NOX COMX | |
| | OFF State Readback as 0 | |
| | AC/DC X D NOX COMX | |

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-2260 CR Ethernet I/O Module with 2-port Ethernet Switch, 6-ch Relay Output and 6-ch DI (RoHS)

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