



A 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
□ DI/Counter: 6 Channels
□ Power Relay: 6 Channels
CE FC ROHS Z

■ 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 are also provided 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.

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.

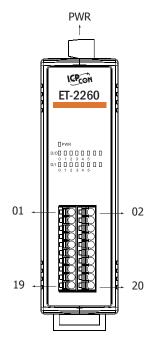
■ System Specifications _

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 (Programmable)		
LAN Bypass	Yes		
LED Indicators			
for System Running	Yes		
for Ethernet Link/Act	Yes		
for DI/DO status	Yes		
2-Way Isolation			
Ethernet	1500 Vpc		
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 VDC		
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℃		
Humidity	10 ~ 90% RH, Non-condensing		

■ I/O Specifications

Digital Input/Counter			
Channels		6	
Contact		Wet Contact	
Sink/Source (NPN/PNP)		Sink/Source	
On Voltage Level		+5 V _{DC} ~ +50 V _{DC}	
Off Voltage Level		+3.5 V _{DC} Max.	
Input Impedance		7.5 kΩ	
	Max. Count	4,294,967,295 (32 bits)	
Counters	Max. Input Frequency	3 kHz	
	Programmable Digital Filter	1 ~ 6500 ms (0.08 Hz ~ 500 Hz)	
Overvoltage Protection		+70 VDC	
Power Re	elay		
Channels		6	
Туре		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

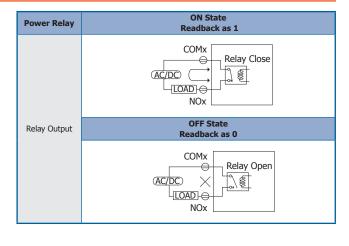


Terminal No.	Pin Assignment	
PWR	F.G. GND + Vs	
ETH1		
ETH2		
Terminal No.	Pin Assignment	Pin Assignmen
01	NO0	GND

Terminal No.	Pin Assignment	Pin Assignment	Terminal No.
01	NO0	GND	02
03	COM0	DI0	04
05	NO1	DI1	06
07	COM1	DI2	08
09	NO2	DI3	10
11	COM2	DI4	12
13	NO3	DI5	14
15	COM3	DICOM	16
17	NO4	NO5	18
19	COM4	COM5	20

Wire Connections _

Digital Input/ Counter	Readback as 1	Readback as 0
	Close to GND	Open
Dry Contact	GND +S5 V DIx	GND +S5 V DIX
	+10 ~ +50 VDC	OPEN or <4 VDC
Sink	DIX 10K	DIX 10K
	+10 ~ +50 VDC	OPEN or <4 VDC
Source	DIX 10K	DIX 10K



■ Ordering Information _

ET-2260 CR

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

Related Products ___

NS-205 CR	Unmanaged 5-Port Industrial Ethernet Switch with Power Input $+10 \sim +30 \; \text{Vpc}$ (RoHS)
NS-208 CR	Unmanaged 8-port Industrial 10/100 Base-TX Ethernet Switch with Power Input $+10 \sim +30$ 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