

EtherCAT



## ECAT-2057-8P8N

EtherCAT Slave I/O Module with Isolated 8-channel Source-type and 8-channel Sink type Digital Outputs (RoHS)

### Features

- On the fly processing: EtherCAT
- Powerful MCU handles efficient network traffic
- 2 x RJ-45 bus interface
- Distance between stations up to 100 m (100 BASE-TX)
- Support daisy chain connection
- EtherCAT conformance test tool verified
- Removable terminal block connector
- LED indicators for the output status
- Built-In isolated 8-channel source-type and 8-channel sink type digital outputs
- RoHS compliant
- ESD Protection 4 KV Contact for each channel



### Introduction

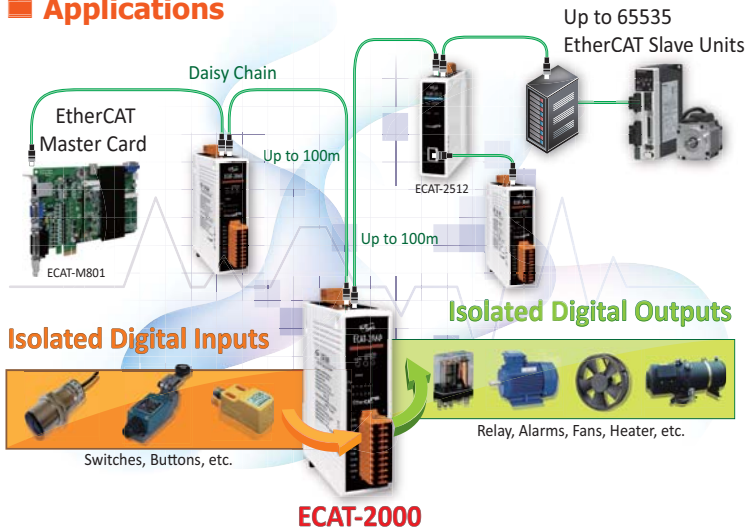
The ECAT-2057-8P8N is an industrial slave I/O module built in 16 digital outputs. It is equipped with the EtherCAT\* protocol and installed by daisy chain connection that provides a more scalable system with fewer wires. Users can obtain the input and output status not only via the process data but also from its LED indicators. The ECAT-2057-8P8N has passed and verified by the conformance test tool, therefore eligible EtherCAT Master or configurator can manipulate it simply and implement your various applications easily.

\* EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

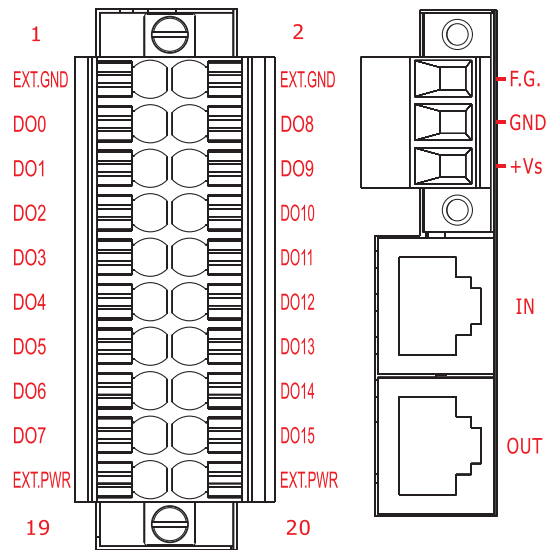
### Hardware Specifications

Digital Output		
Channels	8	8
Output Type	Open Collector (Sink)	Open Emitter (Source)
Load Voltage	+3.5 ~ +30 V	
Max. Load Current	100 mA per channel	
Isolation Voltage	3750 Vdc	
Communication Interface		
Connector	2 x RJ-45	
Protocol	EtherCAT	
Distance between Stations	Max. 100 m (100 BASE-TX)	
Data Transfer Medium	Ethernet/EtherCAT Cable (Min. CAT 5), Shielded	
EMS Protection		
ESD (IEC 61000-4-2)	±4 kV Contact for Each Terminal	
EFT (IEC 61000-4-4)	Signal: 1 KV Class A; Power: 1 KV Class A	
Surge (IEC 61000-4-5)	1 KV Class A	
Power		
Input Voltage Range	+10 ~ +30 Vdc	
Power Consumption	4 W Max.	
Mechanical		
Dimensions (W x L x H)	33 mm x 127 mm x 108 mm	
Installation	DIN-Rail Mounting	
Casing	Plastic	
Environment		
Operating Temperature	-25 ~ +75°C	
Storage Temperature	-30 ~ +80°C	
Relative Humidity	10 ~ 90% RH, Non-condensing	

## Applications



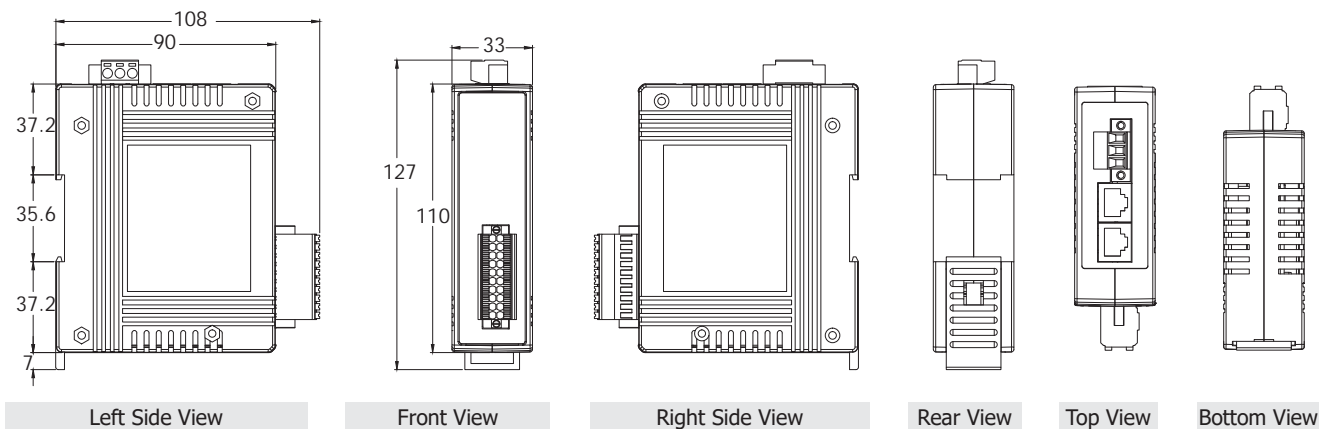
## Pin Assignments



## Wire Connections

Output Type	ON State Readback as 1	OFF State Readback as 0	Output Type	ON State Readback as 1	OFF State Readback as 0
Drive Relay			Drive Relay		
Resistance Load			Resistance Load		

## Dimensions (Units: mm)



## Ordering Information

<b>ECAT-2057-8P8N CR</b>	EtherCAT Slave I/O Module with Isolated 8-channel Source-type and 8-channel Sink type Digital Outputs (RoHS)
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