

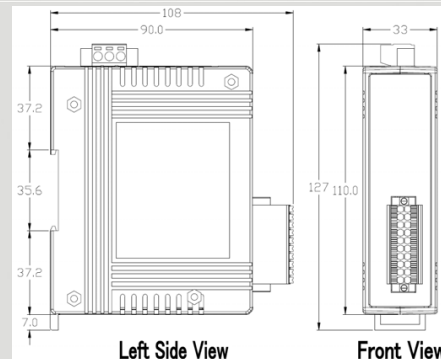


EtherCAT Series Products

Isolated 8-ch DO and 8-ch DI EtherCAT Slave I/O Module



ECAT-2055



Dimensions

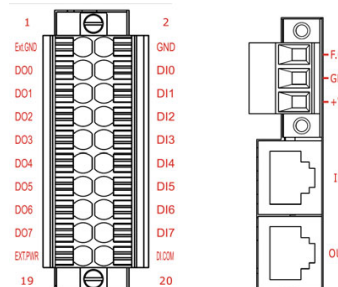
The ECAT-2055 is an industrial slave I/O module built in 8 digital inputs and 8 digital outputs. It is equipped with the EtherCAT* protocol and installed by daisy chain connection that provides a more scalable system with fewer wires. Users can obtain the input and output status not only via the process data but also from its LED indicators. The ECAT-2055 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.

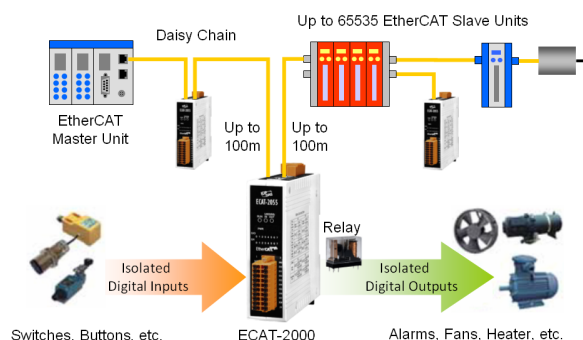
Features

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

Pin Assignment



Application



Wire connection

Output	ON	OFF
Drive Relay		
Resistance Load		
Input	ON	OFF
Relay Contact (Dry)		
Open Collector (Dry)		
Relay Contact (Wet)		
NPN Output (Wet)		



Hardware Specifications

Digital Input

Channels	8	
Input Type	Dry (Source)	Wet (Sink/Source)
OFF Voltage Level	Open	+4 V Max.
ON Voltage Level	Close to GND	+10 V ~ +50 V
Photo-Isolation	3750 VDC	

Digital Output

Channels	8	
Output Type	Open Collector (Sink)	
Load Voltage	+3.5 ~ 50 V	
Max. Load Current	700mA per channel	
Isolation Voltage	3750 V _{rms}	

Communication Interface

Connector	2 x RJ-45	
Protocol	EtherCAT	
Distance between Stations	Max. 100 m (100BASE-TX)	
Data Transfer Medium	Ethernet/EtherCAT Cable (Min. CAT 5), Shielded	

Power

Input Voltage Range	10V ~ 30VDC	
Power Consumption	Max. 4W	

Mechanism

Installation	DIN-Rail	
Dimensions	110mm x 90mm x 33mm (H x W x D, without connectors)	
Case Material	UL 94V-0 Housing	

Environment

Operating Temperature	-25°C ~ 75°C	
Storage Temperature	-30°C ~ 80°C	
Relative Humidity	10 ~ 90%, No Condensation	
ESD (IEC 61000-4-2)	4 KV Contact for Each Channel	
EFT (IEC 61000-4-4)	Signal: 1 KV Class A; Power: 1 KV Class A	
Surge (IEC 61000-4-5)	1 KV Class A	

Ordering Information

ECAT-2055 CR

EtherCAT Slave I/O Module with Isolated 8-ch DO and 8-ch DI (RoHS)