

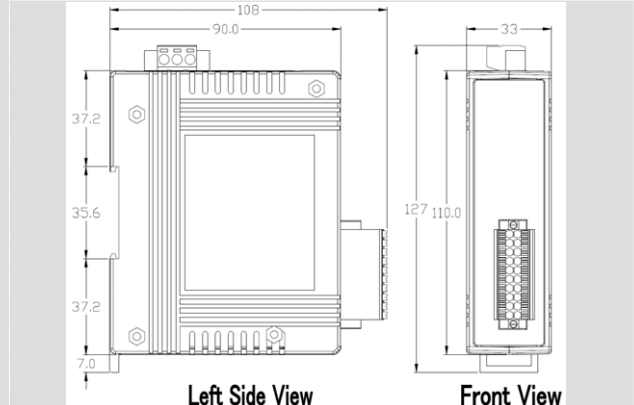


EtherCAT Series Products

Isolated 6-ch DI and 6-ch Relay DO EtherCAT Slave I/O Module



ECAT-2060



Dimensions

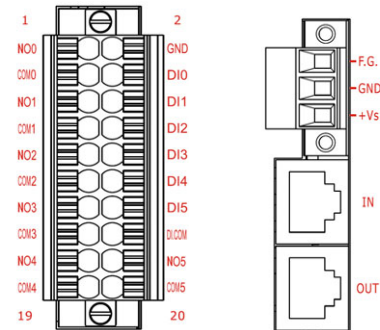
The ECAT-2060 is an industrial slave I/O module built in 6 digital inputs and 6 relay digital outputs. It is equipped with the EtherCAT* protocol and installed by daisy chain connection that provides a more scalable system with fewer wires. Users can obtain the input and output status not only via the process data but also from its LED indicators. The ECAT-2060 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.

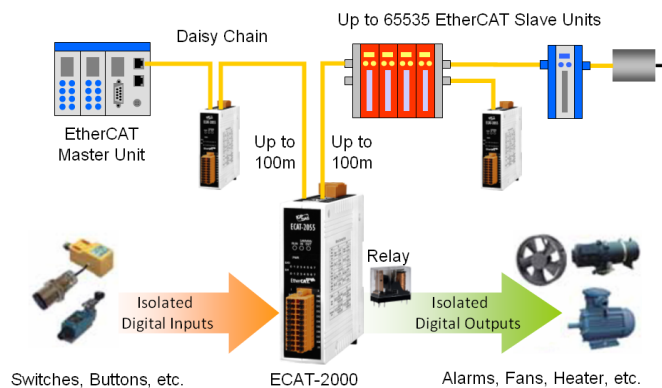
Features

- 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: 6 DI and 6 Relay DO
- RoHS compliant
- ESD Protection 4 KV Contact for each channel

Pin Assignment



Application



Wire connection

Input	ON	OFF
Relay Contact (Dry)	Relay Close: DIx GND	Relay Open: DIx GND
Open Collector (Dry)	ON: DIx GND	OFF: DIx GND
Relay Contact (Wet)	Relay Close: DI.COM DIx	Relay Open: DI.COM DIx
NPN Output (Wet)	ON: DI.COM DIx	OFF: DI.COM DIx
Output	ON	OFF
Relay	Load: RLx NO RLx COM	Load: RLx NO RLx COM



Hardware Specifications

Digital Input		
Channels	6	
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	6	
Output Type	Form A (SPST-NO)	
Contact Rating (Resistive Load)	5A@30VDC; 5A@125/250VAC(47~63Hz)	
Operate Time	10 ms Max.	
Release Time	5 ms Max.	
Mechanical Endurance	2 x 10 ⁷ Operations	
Electrical Endurance	10 ⁵ Operations	
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-2060 CR

EtherCAT Slave I/O Module with Isolated 6-ch DI and 6-ch Relay DO (RoHS)