



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 I/O status
- Built-In Inputs and Outputs: 6 DI and 6 Relay DO
- RoHS compliant
- ESD Protection 4 KV Contact for each channel



Introduction

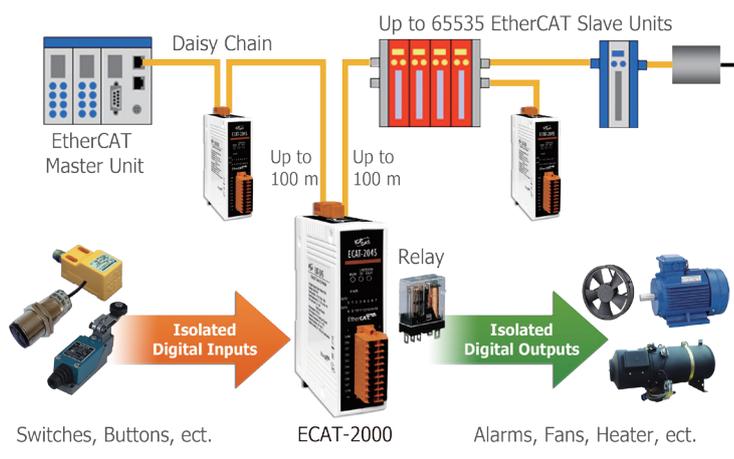
The ECAT-2060 is an industrial slave I/O module built in 6 digital inputs and 6 relay digital outputs. It is equipped with the EtherCAT* protocol and installed by daisy chain connection that provides a more scalable system with fewer wires. Users can obtain the input and output status not only via the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

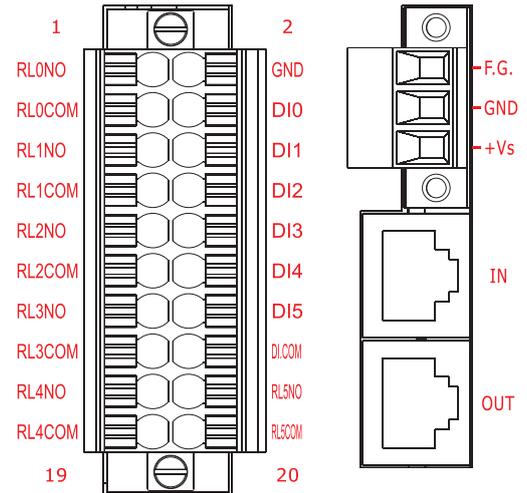
Hardware Specifications

Model	ECAT-2060	
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)	5 A @ 30 VDC; 5 A @125 / 250 VAC (47 ~ 63 Hz)	
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 (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 V ~ 30 VDC	
Power Consumption	4 W Max.	
Mechanical		
Dimensions (H x W x D)	110 mm x 90 mm x 33 mm	
Installation	DIN-Rail Mounting	
Case Material	UL 94V-0 Housing	
Environment		
Operating Temperature	-25 ~ +75°C	
Storage Temperature	-30 ~ +80°C	
Relative Humidity	10 ~ 90% RH, Non-condensing	

Applications



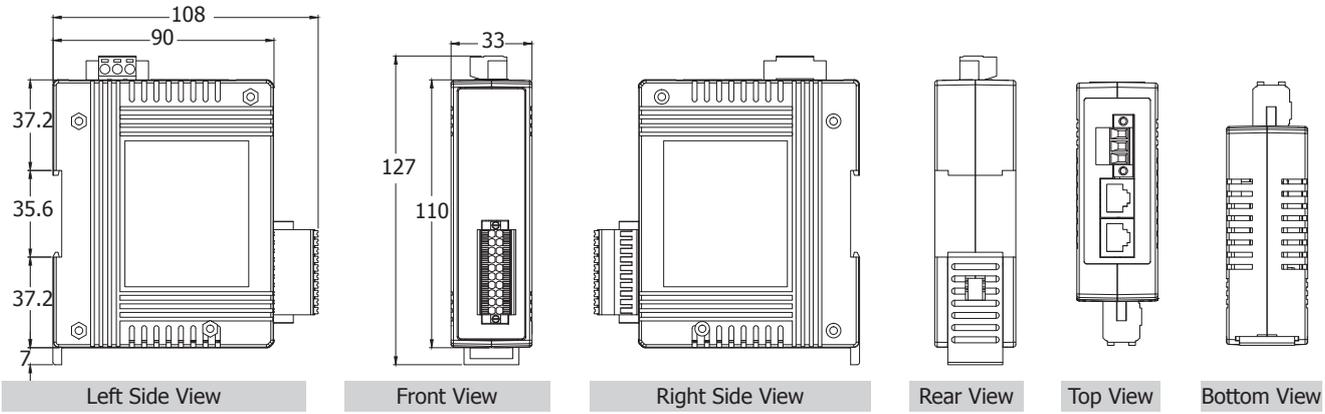
Pin Assignments



Wire Connections

Digital Input/Counter	Readback as 1	Readback as 0
Sink	+10 ~ +50 VDC 	OPEN or <4 VDC
	Source	+10 ~ +50 VDC
Output Type		ON State Readback as 1
Relay Output		

Dimensions (Units: mm)



Ordering Information

ECAT-2060 CR	EtherCAT Slave I/O Module with Isolated 6-ch DI and 6-ch Relay DO (RoHS)
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