

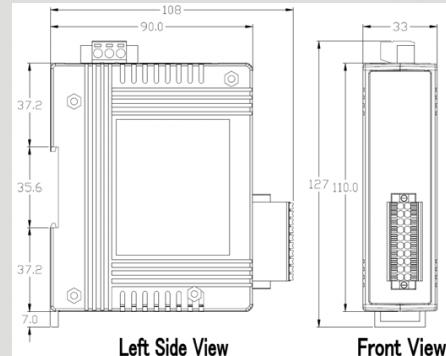


EtherCAT Series Products

Isolated 16-ch DI EtherCAT Slave I/O Module



ECAT-2051



Dimensions

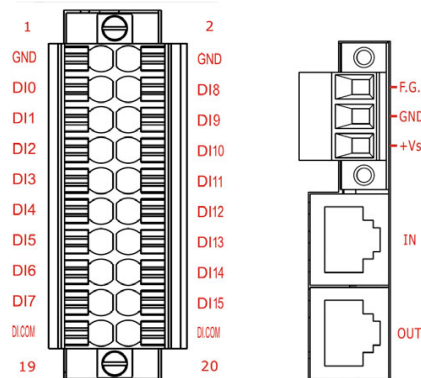
The ECAT-2051 is an industrial slave I/O module built in 16 digital inputs. It is equipped with the EtherCAT* protocol and installed by daisy chain connection that provides a more scalable system with fewer wires. Users can obtain the input and output status not only via the process data but also from its LED indicators. The ECAT-2051 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.

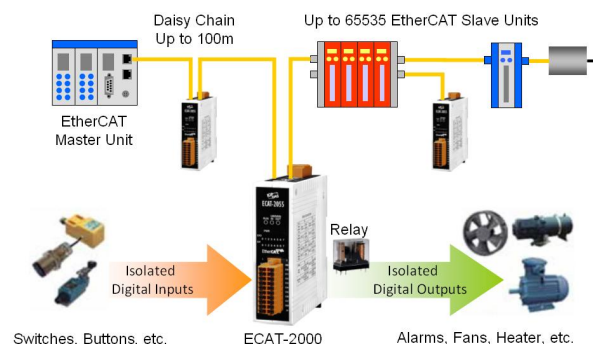
Features

- 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 input status
- Built-In isolated 16 digital inputs
- 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)	+ DIx - DI.COM Relay Close	+ DIx - DI.COM Relay Open
NPN Output (Wet)	ON DIx + DI.COM	OFF DIx + DI.COM



Hardware Specifications

Digital Input		
Channels	16	
Input Type	Dry (Source)	Wet (Sink/Source)
Dry Contact Level	Open	+4 V Max.
Wet Contact Level	Close to GND	+10 V ~ +50 V
Photo-Isolation	3750 VDC	
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-2051 CR	EtherCAT Slave I/O Module with Isolated 16-ch Digital Inputs (RoHS)
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