EtherCAT Series

ICP DAS

EtherCAT Series Products

Isolated 16-ch DI EtherCAT Slave I/O Module

RoHS CE FC

ECAT-2051

Dimensions

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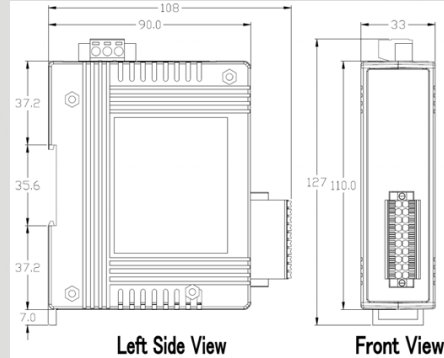
The ECAT-2051 is an industrial slave I/O module built in 16 digital inputs. It is equipped with the EtherCAT* protocol and installed by daisy chain connection that provides a more scalable system with fewer wires. Users can obtain the input and output status not only via the process data but also from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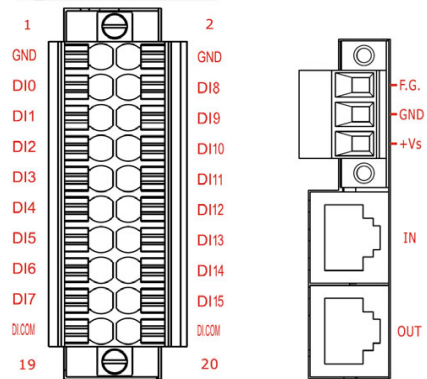
Application
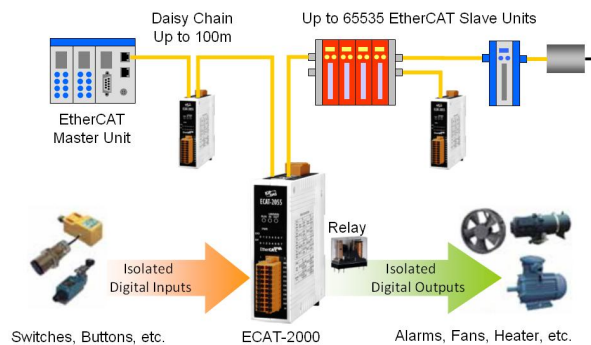
Wire connection

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)	+ − Relay Close — DI.COM DIx	+ − Relay Open — DI.COM DIx
NPN Output (Wet)	− + ON — DI.COM DIx	− + OFF — DI.COM DIx

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Fiche technique

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 V$_{DC}$	

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 ~ 30V$_{DC}$
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℃ ~ 75℃
Storage Temperature	-30℃ ~ 80℃
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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