

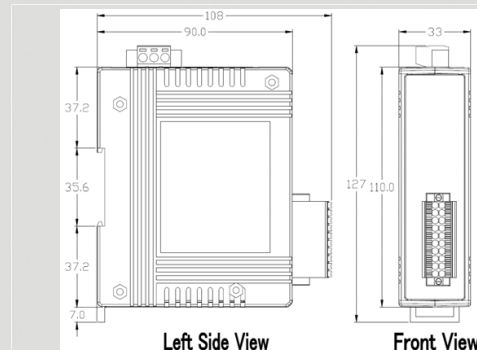


EtherCAT Series Products

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



ECAT-2052-NPN



Dimensions

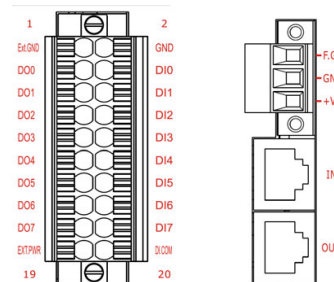
The ECAT-2052-NPN is an industrial slave I/O module built in 8 digital inputs and 8 digital outputs. It is equipped with the EtherCAT* protocol and installed by daisy chain connection that provides a more scalable system with fewer wires. Users can obtain the input and output status not only via the process data but also from its LED indicators. The ECAT-2052-NPN 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.

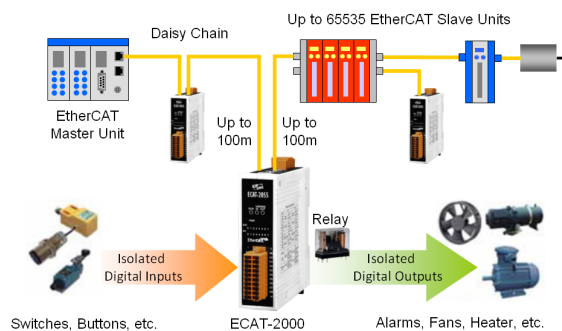
Features

- 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)	Relay Close	Relay Open
Open Collector (Dry)	ON	OFF
Relay Contact (Wet)	Relay Close	Relay Open
NPN Output (Wet)	ON	OFF

Hardware Specifications

Digital Input	
Channels	8
Input Type	Wet (Sink/Source)
OFF Voltage Level	+2 V Max.
ON Voltage Level	+3.5 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	100mA 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-2052NPN CR EtherCAT Slave I/O Module with Isolated 8-ch DO and 8-ch DI (RoHS)