

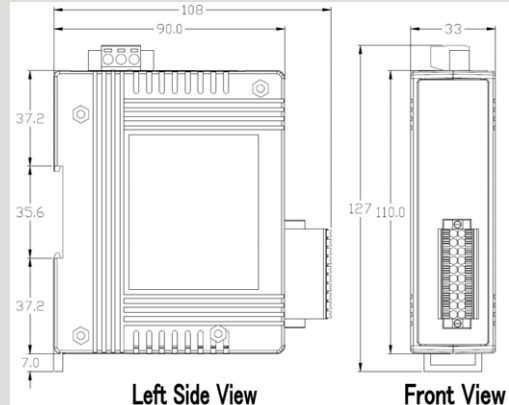


EtherCAT Series Products

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



ECAT-2055



Dimensions

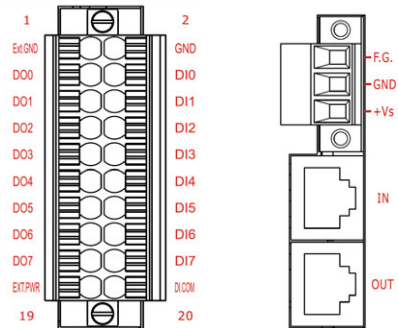
The ECAT-2055 is an industrial slave I/O module built in 8 digital inputs and 8 digital outputs. It is equipped with the EtherCAT* protocol and installed by daisy chain connection that provides a more scalable system with fewer wires. Users can obtain the input and output status not only via the process data but also from its LED indicators. The ECAT-2055 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.

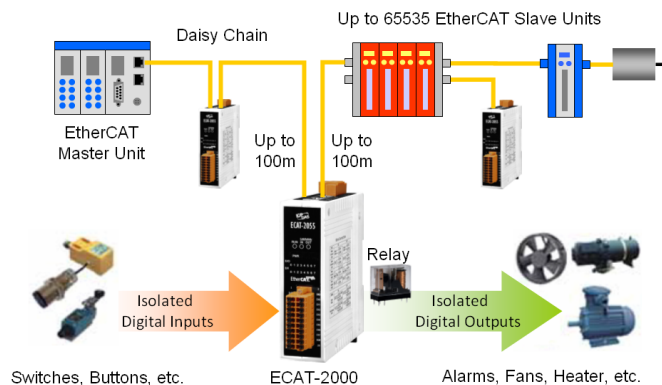
Features

- 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) | | |
| Open Collector (Dry) | | |
| Relay Contact (Wet) | | |
| NPN Output (Wet) | | |



Hardware Specifications

| Digital Input | | |
|---------------------------|---|-------------------|
| Channels | 8 | |
| 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 | 8 | |
| Output Type | Open Collector (Sink) | |
| Load Voltage | +3.5 ~ 50 V | |
| Max. Load Current | 700mA 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

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|---------------------|--|
| ECAT-2055 CR | EtherCAT Slave I/O Module with Isolated 8-ch DO and 8-ch DI (RoHS) |
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