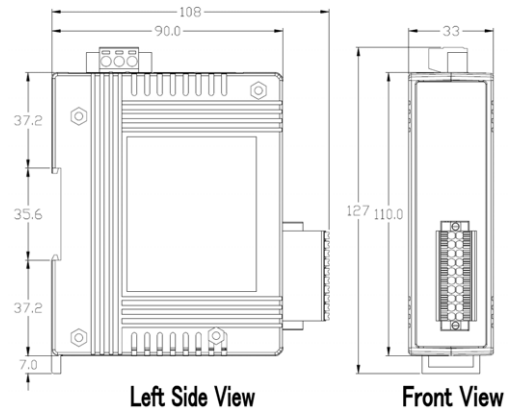




EtherCAT



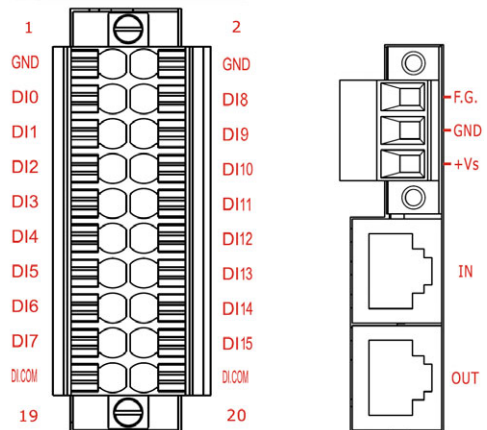
## ECAT-2051

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.

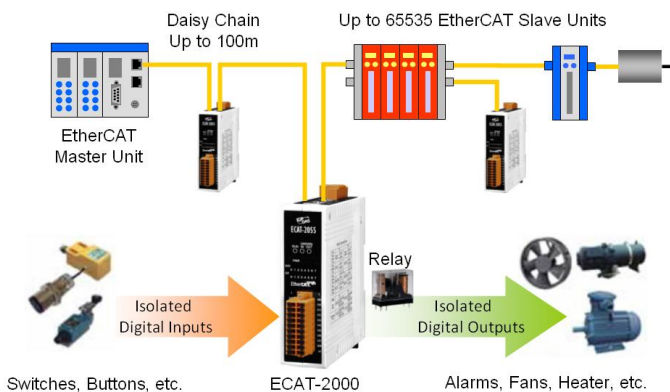
\* EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

### Pin Assignment

- 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



### Application



### Wire connection

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

<b>Digital Input</b>		
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	
<b>Communication Interface</b>		
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	
<b>Power</b>		
Input Voltage Range	10V ~ 30VDC	
Power Consumption	Max. 4W	
<b>Mechanism</b>		
Installation	DIN-Rail	
Dimensions	110mm x 90mm x 33mm (H x W x D, without connectors)	
Case Material	UL 94V-0 housing	
<b>Environment</b>		
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) **Art. No. 141425**