

EtherCAT



## ECAT-2055-32

EtherCAT Slave I/O Module with Isolated 16-channel DO and 16-channel DI

### 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 (100 BASE-TX)
- Support daisy chain connection
- EtherCAT conformance test tool verified
- Removable terminal block connector
- LED indicators for the output status
- Built-In Inputs and Outputs: 16 DI and 16 DO
- RoHS compliant
- ESD Protection 4 KV Contact for each channel



### Introduction

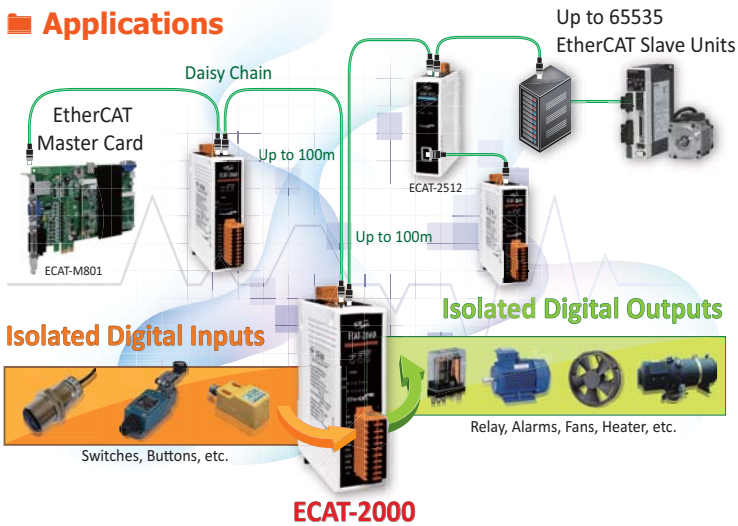
The ECAT-2055-32 is an industrial slave I/O module built in 8 digital inputs and 8 digital outputs. It is equipped with the EtherCAT\* protocol and installed by daisy chain connection that provides a more scalable system with fewer wires. Users can obtain the input and output status not only via the process data but also from its LED indicators. The ECAT-2055-32 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.

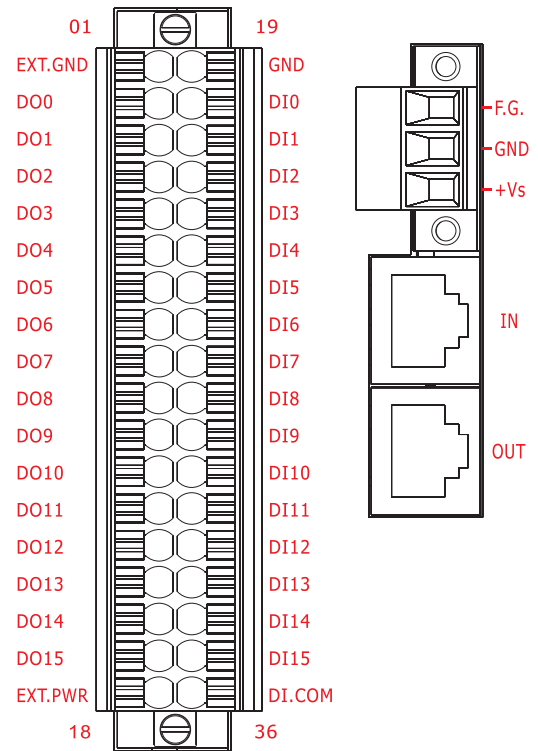
### Hardware Specifications

<b>Digital Output</b>		
Channels		16
Input Type		Wet (Sink/Source)/ Dry (Source)
Wet Contact	ON Voltage Level	+10 V ~ +50 V
	OFF Voltage Level	+4 V Max.
Dry Contact	ON Voltage Level	Close to GND
	OFF Voltage Level	Open
Photo-Isolation		3750 Vdc
<b>Digital Output</b>		
Channels		16
Output Type		Open Collector (Sink)
Load Voltage		+3.5 ~ +50 V
Max. Load Current		500 mA per channel
Isolation Voltage		3750 Vdc
<b>Communication Interface</b>		
Connector		2 x RJ-45
Protocol		EtherCAT
Distance between Stations		Max. 100 m (100 BASE-TX)
Data Transfer Medium		Ethernet/EtherCAT Cable (Min. CAT 5), Shielded
<b>EMS Protection</b>		
ESD (IEC 61000-4-2)		±4 kV Contact for Each Terminal
EFT (IEC 61000-4-4)		Signal: 1 kV Class A; Power: 1 kV Class A
Surge (IEC 61000-4-5)		1 kV Class A
<b>Power</b>		
Input Voltage Range		+10 ~ +30 Vdc
Power Consumption		4 W Max.
<b>Mechanical</b>		
Dimensions (W x L x H)		31 mm x 157 mm x 126 mm
Installation		DIN-Rail Mounting
Casing		Plastic
<b>Environment</b>		
Operating Temperature		-25 ~ +75°C
Storage Temperature		-30 ~ +80°C
Relative Humidity		10 ~ 90% RH, Non-condensing

## Applications



## Pin Assignments

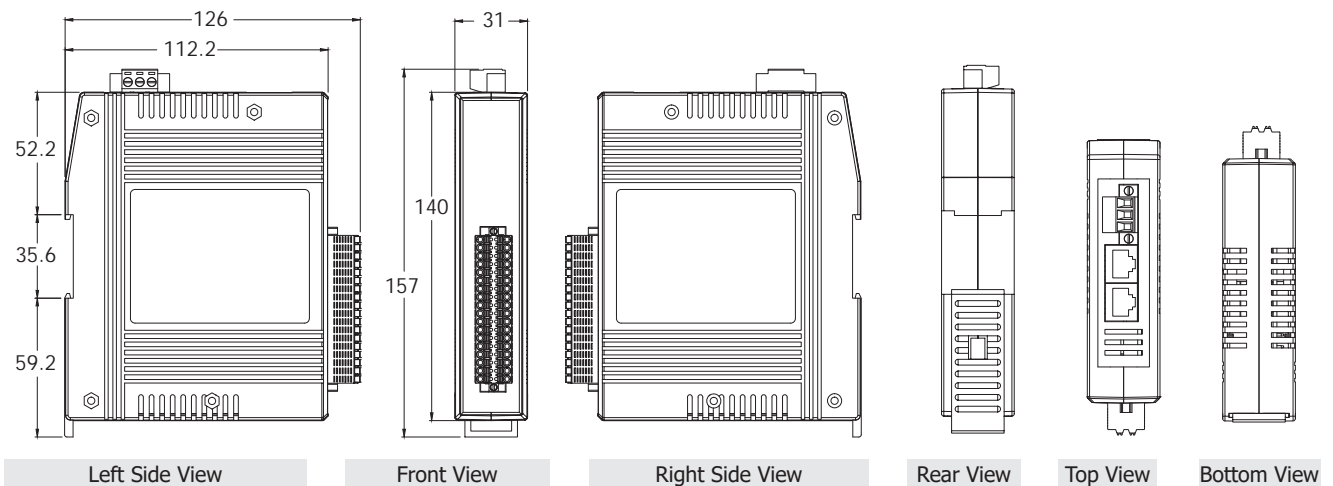


## Wire Connections

Digital Input/Counter	Readback as 1	Readback as 0
Sink	+10 ~ +50 VDC	OPEN or <4 VDC
Source	+10 ~ +50 VDC	OPEN or <4 VDC
Dry Contact	Close to GND	Open

Output Type	ON State Readback as 1	OFF State Readback as 0
Drive Relay		
Resistance Load		

## Dimensions (Units: mm)



## Ordering Information

<b>ECAT-2055-32 CR</b>	EtherCAT Slave I/O Module with Isolated 16-channel DO and 16-channel DI (RoHS)
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