



EtherCAT Slave I/O Module with Isolated 16-channel DO and 16-channelannel 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			
CE UK FC (ROHS)			

■ 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

Digital Input						
Channels		16				
Input Type		Wet (Sink/Source)/ Dry (Source)				
Wet ON Voltage Level +10 V ~ +50 V		+10 V ~ +50 V				
Contact	OFF Voltage Level	+4 V Max.				
Dry	ON Voltage Level	Close to GND				
Contact	OFF Voltage Level	Open				
Photo-Isolation		3750 Vpc				
Digital Ou	tput					
Channels		16				
Output Type		Open Collector (Sink , NPN)				
Load Voltage		+3.5 ~ +50 V				
Max. Load Current		700 mA per channel				
Isolation Voltage		3750 Vpc				
Communication Interface						
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				
EMS Prote	EMS Protection					
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				
Power						
Input Voltage Range		+10 ~ +30 VDC				
Power Consumption		4 W Max.				
Mechanical						
Dimensions (W x L x H)		31 mm x 157 mm x 126 mm				
Installation		DIN-Rail Mounting				
Case Material		UL 94V-0 Housing				
Environme	Environment					
Operating Temperature		-25 ~ +75°C				
Storage Temperature		-30 ∼ +80°C				
Relative Humidity		10 ~ 90% RH, Non-condensing				

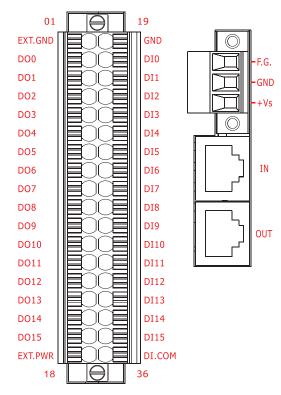
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Wire Connections

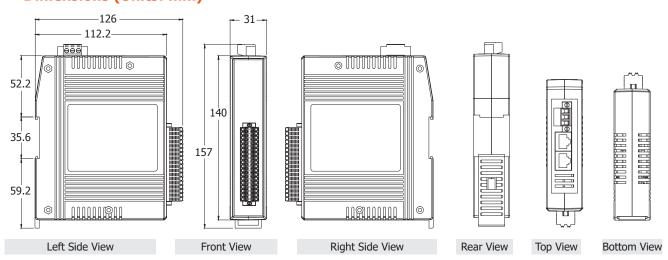
Digital Input/ Counter	Readback as 1	Readback as 0
	+10 ~ +50 VDC	OPEN or <4 VDC
Sink	DIX 10K + - To other channels	DIX 10K To other channels
	+10 ~ +50 VDC	OPEN or <4 VDC
Source	DIX 10K To other channels	DIX 10K To other channels
	Close to GND	Open
Dry Contact	DI.GND +S5 V To other channels	DI.GND +S5 V To other channels

■ Pin Assignments



Output Type	ON State Readback as 1	OFF State Readback as 0
Drive Relay	EXT.PWR DOX EXT.GND	EXT.PWR DOX EXT.GND
Resistance Load	EXT.PWR DOX EXT.GND	EXT.PWR DOX EXT.GND

Dimensions (Units: mm)



■ Ordering Information

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

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