

Introduction

The ECAT-2055-32 is an industrial SubDevice 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 Main Device 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.

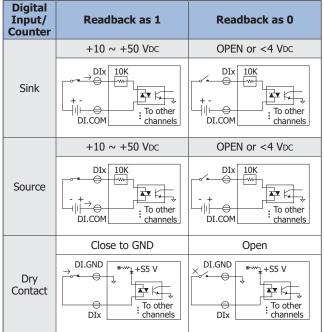
Hardware Specifications

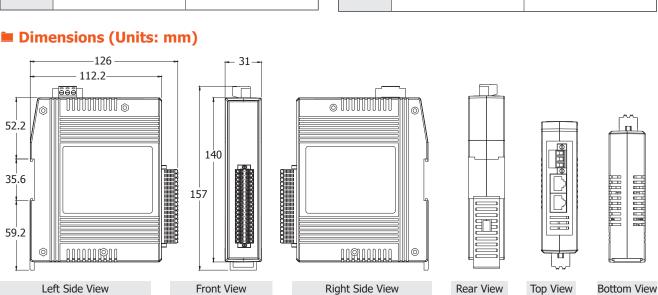
Digital In	put			
Channels		16		
Input Type		Wet (Sink/Source)/ Dry (Source)		
Wet	ON Voltage Level	+10 V ~ +50 V		
Contact	OFF Voltage Level	+4 V Max.		
Dry	ON Voltage Level	Close to GND		
Contact	OFF Voltage Level	Open		
Photo-Isolation		3750 VDC		
Digital Ou	ıtput			
Channels		16		
Output Type		Open Collector (Sink , NPN)		
Load Voltage		+3.5 ~ +50 V		
Max. Load Current		700 mA per channel		
Isolation Voltage		3750 VDC		
EtherCAT				
Ports		2 x RJ-45		
Distance Between Stations		100 m Max. (100BASE-TX)		
Data Transfer Medium		Ethernet/EtherCAT Cable (Min. CAT 5), Shielded		
Cycle Time		1 ms		
Distributed Clocks		Yes		
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.		
Mechanic	al			
Dimensions (W x L x H)		31 mm x 157 mm x 126 mm		
Installation		DIN-Rail Mounting		
Casing		Plastic		
Environm	ent			
Operating Temperature		-25 ~ +75°C		
Storage Temperature		-30 ~ +80°C		
Relative Humidity		10 ~ 90% RH, Non-condensing		



ECAT-2000

Wire Connections



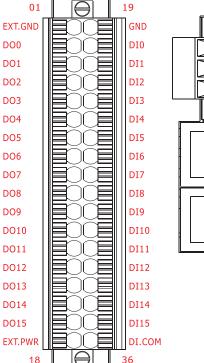


Ordering Information

ECAT-2055-32 CR

EtherCAT SubDevice I/O Module with Isolated 16-channel DO and 16-channel DI (RoHS)

Pin Assignments



 \bigcirc F.G. -GND \Box +Vs \bigcirc IN OUT

Output Type	ON State Readback as 1	OFF State Readback as 0
Drive Relay	DOx EXT.PWR DOx EXT.GND	
Resistance Load	+ - ↓ + ↓ + ↓ + ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	+ + + + + + + + + + + + + + + + + + +