



ECAT-2051/ECAT-2053

EtherCAT SubDevice I/O Module with Isolated 16-channel Digital Inputs

■ 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 input status
■ Built-In isolated 16 digital inputs
■ ESD Protection 4 KV Contact for each channel
CE UK FC (ROHS)

■ Introduction

The ECAT-2051 is an industrial SubDevice 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 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.

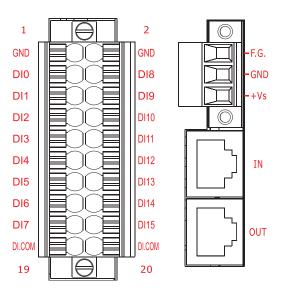
■ Hardware Specifications

Model		ECAT-2051	ECAT-2053	
Digital In	put	<u> </u>		
Channels		16		
Input Type		Wet (Sink/Source)/ Dry (Source)	Wet (Sink/Source)	
Wet Contact	ON Voltage Level	+4 V Max.	+2 V Max.	
	OFF Voltage Level	+10 V ~ +50 V	+3.5 V ~ +50 V	
Dry Contact	ON Voltage Level	Open	-	
	OFF Voltage Level	Close to GND	-	
Photo-Isolation		3750 \	/DC	
EtherCAT				
Ports		2 x RJ	l-45	
Distance Between Stations		100 m Max. (1	100 m Max. (100BASE-TX)	
Data Transfer Medium		Ethernet/EtherCAT Cable	(Min. CAT 5), Shielded	
Cycle Time		200	200 us	
Distributed	Clocks	Yes		
EMS Prote	ection			
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		Consumption 4 W Max.		
Mechanic	al			
Dimensions	s (W x L x H) 33 mm x 127 mm x 108 mm			
Installation		DIN-Rail Mounting		
Casing		Plastic		
Environm	ent			
Operating Temperature		-25 ~ +	-75°C	
Storage Temperature		emperature -30 ~ +80°C		
Relative Hu	umidity	10 ~ 90% RH, N	on-condensing	

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■ Pin Assignments

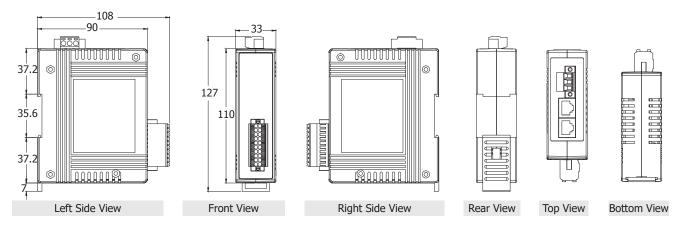


■ Wire Connections

ECAT-2051 / ECAT-2053				
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		

ECAT-2051				
Digital Input/ Counter	Readback as 1	Readback as 0		
	Close to GND	Open		
Dry	DI.GND +S5 V To other channels	DI.GND +S5 V To other channels		

■ Dimensions (Units: mm)



■ Ordering Information

ECAT-2051 CR	EtherCAT SubDevice I/O Module with Isolated 16-channel DI (RoHS)	
ECAT-2053 CR EtherCAT SubDevice I/O Module with Isolated 16-channel DI (RoHS)		

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