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□ 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 input status
■ Built-In isolated 16 digital inputs
■ RoHS compliant
■ ESD Protection 4 KV Contact for each channel
CE FC KOHS

■ Introduction -

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.

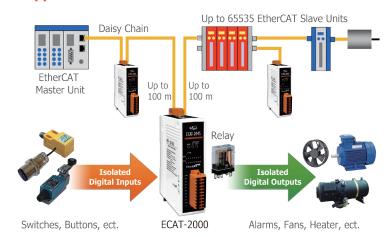
* EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

Hardware Specifications _

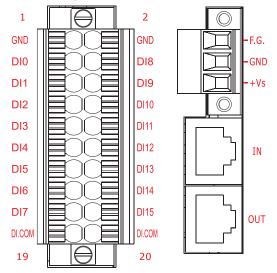
Model		ECAT-2051	ECAT-2053
Digital Inp	ut		
Channels		1	6
Input Type		Wet (Sink/Source)/ Dry (Source)	Wet (Sink/Source)
Wet Contact	ON Voltage Level	+4 V Max.	+2 V Max.
	OFF Voltage Level	+10 V ~ +50 V	+3.5 V ~ +50 V
Du Contoct	ON Voltage Level	Open	-
Dry Contact	OFF Voltage Level	Close to GND	-
Photo-Isolation		3750 VDC	
Communic	ation Interface		
Connector		2 x RJ-45	
Protocol		EtherCAT	
Distance between Stations		Max. 100 m (100 BASE-TX)	
Data Transfe	r Medium	Ethernet/EtherCAT Cable (Min. CAT 5), Shielded	
EMS Protec	ction		
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 V _{DC}	
Power Consumption		4 W Max.	
Mechanica	<u> </u>		
Dimensions (H x W x D)		110 mm x 90 mm x 33 mm	
Installation		DIN-Rail Mounting	
Case Material		UL 94V-0 Housing	
Environme	nt		
Operating Temperature		-25 ~ +75°C	
Storage Temperature		-30 ∼ +80°C	
Relative Hun	nidity	10 ~ 90% RH, Non-condensing	

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■ Applications _



■ Pin Assignments _

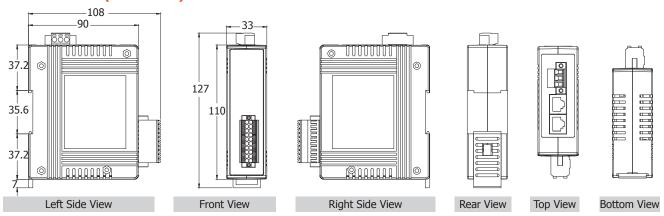


■ Wire Connections _

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	CAT Slave I/O Module with Isolated 16-ch DI (RoHS)	
ECAT-2053 CR	EtherCAT Slave I/O Module with Isolated 16-ch DI (RoHS)	

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