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■ Introduction _

The ECAT-2055 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 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.

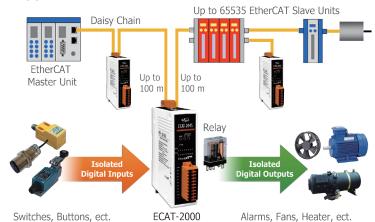
Hardware Specifications.

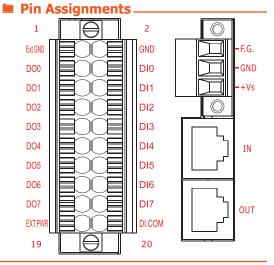
Model		ECAT-2052	ECAT-2052-NPN	ECAT-2055
Digital Ir	nput			
Channels			8	
Input Type		Wet (Sink/Source)		Wet (Sink/Source) / Dry (Source)
Wet Contact	ON Voltage Level	+10 V ~ +50 V	+3.5 V ~ +50 V	+10 V ~ +50 V
	OFF Voltage Level	+4 V Max.	+2 V Max.	+4 V Max.
Dry	ON Voltage Level	Close to GND	-	Close to GND
Contact	OFF Voltage Level	Open	-	Open
Photo-Isol	lation		3750 VDC	
Digital O	utput			
Channels			8	
Output Type		Open Source (Source)	Open Collector (Sink)	Open Collector (Sink)
Load Voltage		+3.5 ~ 50 V	+3.5 ~ 50 V	+3.5 ~ 50 V
Max. Load Current		100 mA per channel	100 mA per channel	700 mA per channel
Isolation Voltage		3750 Vrms		
Commun	ication 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 Prot	tection			
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	C 61000-4-5)	1 KV Class A		
Power				
Input Volta	age Range	10 V ~ 30 VDC		
Power Consumption		4 W Max.		
Mechanic	cal			
Dimensions (H x W x D)		110 mm x 90 mm x 33 mm		
Installation		DIN-Rail Mounting		
Case Material		UL 94V-0 Housing		
Environn	nent			
Operating Temperature		-25 ~ +75°C		
Storage Temperature		-30 ~ +80°C		
Relative Humidity		10 ~ 90% RH, Non-condensing		

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Wire Connections -

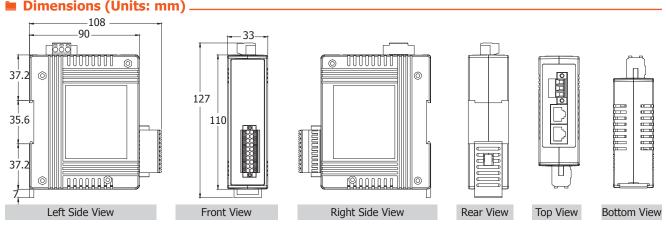
ECAT-2052 / ECAT-2052-NPN / ECAT-2055			
Digital Input /Counter	Readback as 1	Readback as 0	
	+10 ~ +50 VDC	OPEN or <4 VDC	
Sink	DIX 10K To other channels	DIX 10K	
	+10 ~ +50 VDC	OPEN or <4 VDC	
Source	DIX 10K DIX To other channels	DIX 10K To other channels	

ECAT-2055			
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	

ECAT-2052-NPN / ECAT-2055				
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		

ECAT-2052				
Output Type	ON State Readback as 1	OFF State Readback as 0		
Inductive Load	DOX D Ext.PWR Ext.GND	DOX Ext.PWR		
Resistance Load	Load DOX D\(\operatorname{\ope	Load +		

■ Dimensions (Units: mm)



Ordering Information

ECAT-2052 CR	EtherCAT Slave I/O Module with Isolated 8-ch DO and 8-ch DI (RoHS)
ECAT-2052-NPN CR	EtherCAT Slave I/O Module with Isolated 8-ch DO and 8-ch DI (RoHS)
ECAT-2055 CR	EtherCAT Slave I/O Module with Isolated 8-ch DO and 8-ch DI (RoHS)

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