



EtherCAT Slave I/O Module with Isolated 32-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 (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 32 digital inputs			
■ RoHS compliant			
■ ESD Protection 4 KV Contact for each channel			
CE FC KOHS Z			

■ Introduction

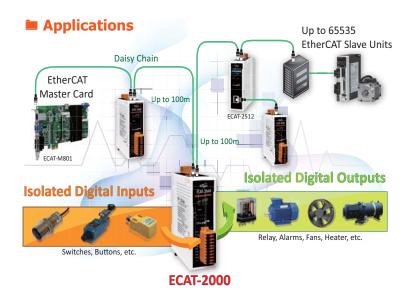
The ECAT-2051-32 is an industrial slave I/O module built in 16 digital inputs. It is equipped with the EtherCAT* protocol and installed by daisy chain connection that provides a more scalable system with fewer wires. Users can obtain the input and output status not only via the process data but also from its LED indicators. The ECAT-2051-32 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.

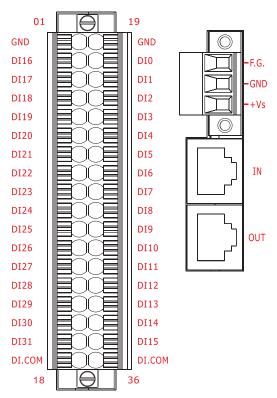
■ Hardware Specifications

Digital Input						
Channels		32				
Input Type		Wet (Sink/Source)/ Dry (Source)				
Wet Contact	ON Voltage Level	+10 V ~ +50 V				
	OFF Voltage Level	+4 V Max.				
Dry Contact	ON Voltage Level	Close to GND				
	OFF Voltage Level	Open				
Photo-Isolation		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 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	s (W x L x H)	31 mm x 157 mm x 126 mm				
Installation		DIN-Rail Mounting				
Casing		Plastic				
Environment						
Operating Temperature		-25 ∼ +75°C				
Storage Temperature		-30 ∼ +80°C				
Relative Humidity		10 ~ 90% RH, Non-condensing				

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Pin Assignments

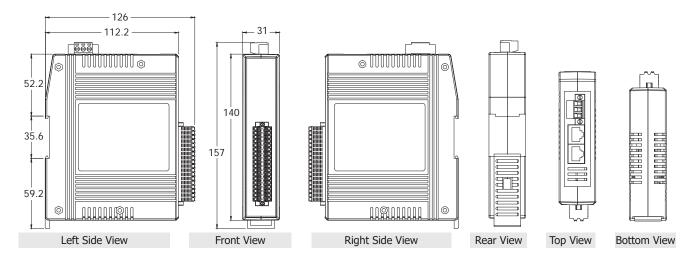


■ Wire Connections

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

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-2051-32 CR EtherCAT Slave I/O Module with Isolated 32-channel Digital Inputs (RoHS)

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