



EtherCAT Slave I/O Module with Isolated 16-channel Digital Inputs and Isolated 16-channel Digital Outputs

Peatures On the fly processing: EtherCAT 2 x RJ-45 bus interface Distance between stations up to 100 m (100 BASE-TX) Support daisy chain connection Removable terminal block connector LED indicators for the I/O status Built-In Inputs and Outputs: 16 DI and 16 DO Configurable Power-on Value Settings Keep output values after state machine change

Introduction

The EC2-P16C16 is an industrial slave I/O module built in 16 digital inputs and 16 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 EC2-P16C16 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.

Low Pass Filter

CE CA

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

Specifications

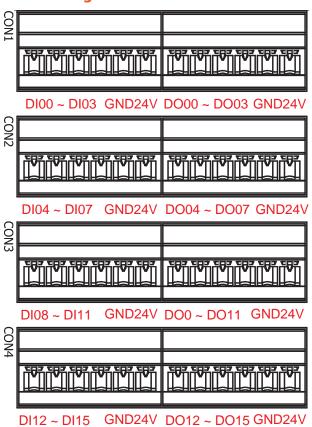
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EMS Protection				
EFT (IEC 61000-4-4)	Signal: 1 KV Class B; Power: 1 KV Class B			
ESD (IEC 61000-4-2)	±4 kV Contact for Each Terminal			
Surge (IEC 61000-4-5)	± 1 kV Class A			
Digital Input				
Channels	16			
Туре	Wet (Sink & Source)/ Dry (Source)			
ON Voltage Level	Wet Contact: +10 V ~ +24 V Dry Contact: Close to GND			
OFF Voltage Level	Wet Contact :+4 V Max. Dry Contact: Open			
Isolation	3750 VDC			
Digital Output				
Channels	16			
Туре	Open Collector (Sink), with internal flywheel diode			
Load Voltage	40 VDC Max.			
Load Current	500mA/Channel(Sink)			
Isolation	3000 VDC			
EtherCAT				
Ports	EtherCAT, 2 X RJ45			
Distance Between Stations	Max. 100 m (100 Base-Tx)			
Data Transfer Medium	Ethernet/EtherCAT cable (min. CAT5), shielded			
Cycle Time	100 us			
Distributed Clocks	Yes			
Node ID	Up to 256			

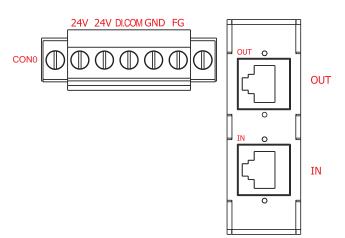
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Specifications

Power			
Input Range	+24 VDC		
Consumption	3 W		
Mechanical			
Casing	Metal with IP40		
Dimensions (mm)	83 x 122 x 65 (W x L x D)		
Installation	DIN-Rail or Wall Mounting		
Environment			
Operating Temperature	-25 ~ +75°C		
Storage Temperature	-30 ∼ +80°C		
Humidity	10 ~ 90% RH, Non-condensing		

Pin Assignments





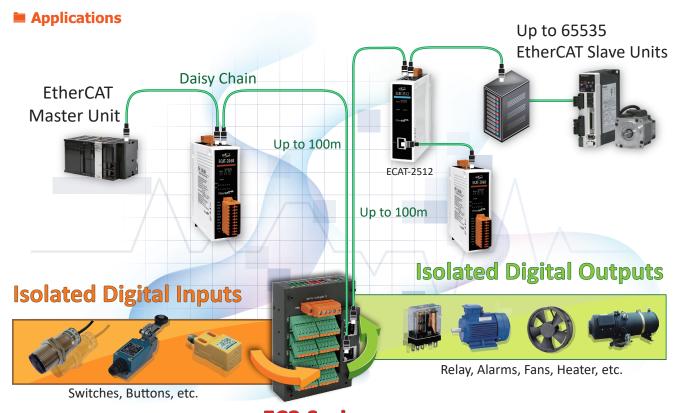
■ Wire Connections

Digital Input/ Counter	Readback as 1	Readback as 0		
Sink	+10 ~ +24V	OPEN or <4 VDC		
	DIX 10K + - To other channels	DIX 10K +- To other channels		
Source	+10 ~ +24V	OPEN or <4 VDC		
	DIX 10K To other channels	DIX 10K To other channels		
Dry Contact	Close to GND	Open		
	DI.GND +S5 V To other channels	× DI.GND +S5 V To other channels		

Output Type	ON State Readback as 1	OFF State Readback as 0
Drive Relay	□ 24V DOX GND	24V DOX GND
Resistance Load	± 1± DOX GND	± Z4V DOX GND

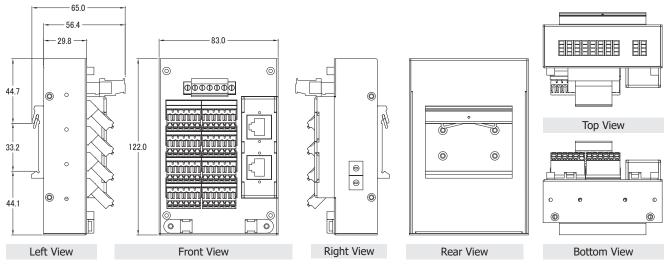
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EC2 Series

■ Dimensions (Units: mm)



■ Ordering Information

EC2-P16C16 CR EtherCAT Slave I/O Module with Isolated 16-channel Digital Inputs and 16-channel Digital Outputs (RoHS)

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