



EC4-P16

EtherCAT SubDevice Slim Module with Isolated 16-ch DI

Introduction

The EC4-P16 is an industrial I/O module designed with a slim-type form factor, featuring 16 isolated digital input channels. It features the EtherCAT protocol, providing a system with higher scalability and fewer cables. Users can check the current input status through LED indicators on the enclosure. In addition, the module has passed the test and verification of the conformance testing tool. It is also compatible with various standard EtherCAT MainDevices to enable diversified applications.

Specifications

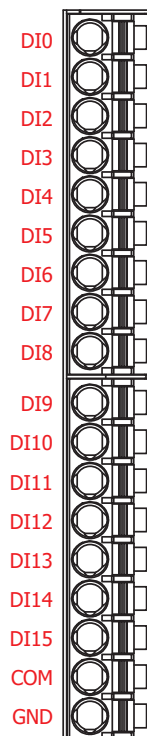
EMS Protection		
ESD (IEC 61000-4-2)		±8KV(Air for Random Point)
Digital Input		
Channels		16
Input Type		Wet (Sink/Source) / Dry
Wet Contact	ON Voltage Level	+19V~+30V
	OFF Voltage Level	+11V Max.
Dry Contact	ON Voltage Level	Close to GND
	OFF Voltage Level	Open
Isolation		3000Vdc
EtherCAT		
Cycle Time		100 μs
Distributed Clocks		Yes
Power		
Input Range		+24 Vdc
Consumption		2 W
Mechanical		
Casing		Plastic
Dimensions (mm)		17.5 x 108 x 73 (W x L x D) excluding terminals
Installation		DIN-Rail or Wall Mounting
Environment		
Operating Temperature		-25 ~ +70°C
Storage Temperature		-30 ~ +80°C
Humidity		10 ~ 90% RH, Non-condensing

Features

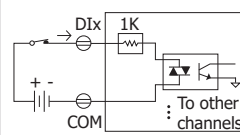
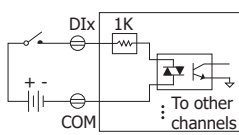
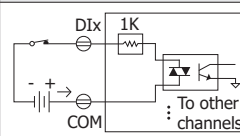
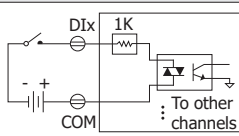
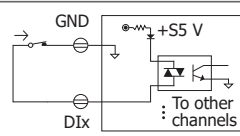
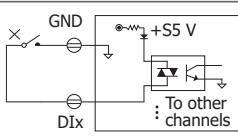
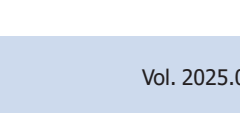
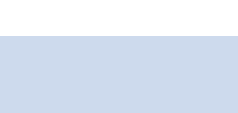
- Interface: EtherCAT
- Removable terminal block connector
- LED indicators for the I/O status
- Built-In isolated 16-channel digital inputs
- Low Pass Filter



Pin Assignments



Wire Connections

Digital Input/Counter	Readback as 1	Readback as 0
Sink	+19 ~ +30V 	OPEN or < 11Vdc 
	+19 ~ +30V 	OPEN or < 11Vdc 
Source	+19 ~ +30V 	OPEN or < 11Vdc 
	+19 ~ +30V 	OPEN or < 11Vdc 
Dry Contact	Close to GND 	OPEN
	Close to GND 	OPEN

Applications

Create your own I/O module

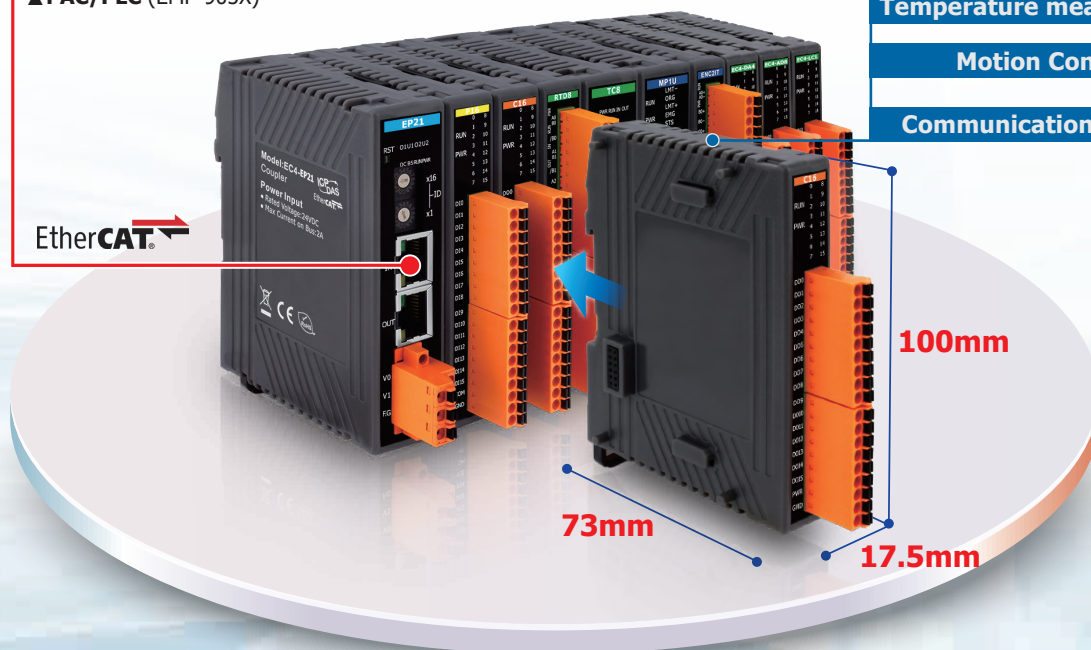
Maximize your I/O system and applications in limited space



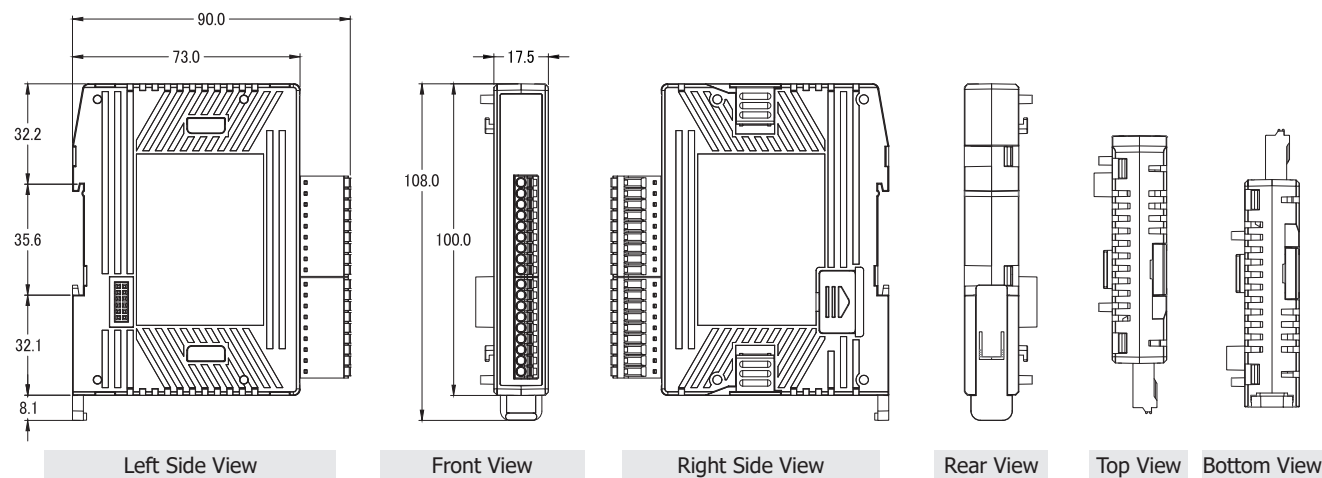
▲ PAC/PLC (EMP-905X)

EtherCAT®

Digital I/O
Analog I/O
Strain measurement
Temperature measurement
Motion Control
Communication coupler



Dimensions (Units: mm)



Ordering Information

EC4-P16 CR	EtherCAT SubDevice Slim Module with Isolated 16-ch DI (RoHS)
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