EC1-P32

EtherCAT Slave I/O Module with
Isolated 32-channel Digital Inputs

◪ Features

■ On the fly processing: EtherCAT

■ Powerful MCU handles efficient network traffic

■ Maximum distance between Stations can be up to 100 m (100BASE-TX)

■ Support daisy chain and star connection

■ EtherCAT conformance test tool verified

■ LED indicators for the input status

■ Built-In isolated 32-channel digital inputs

■ Low Pass Filter

■ ESD Protection 4 KV Contact for each channel

CE UKCA RoHS

◼ Introduction

The EC1-P32 is an industrial slave I/O module built in 32 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 EC1-P32 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.
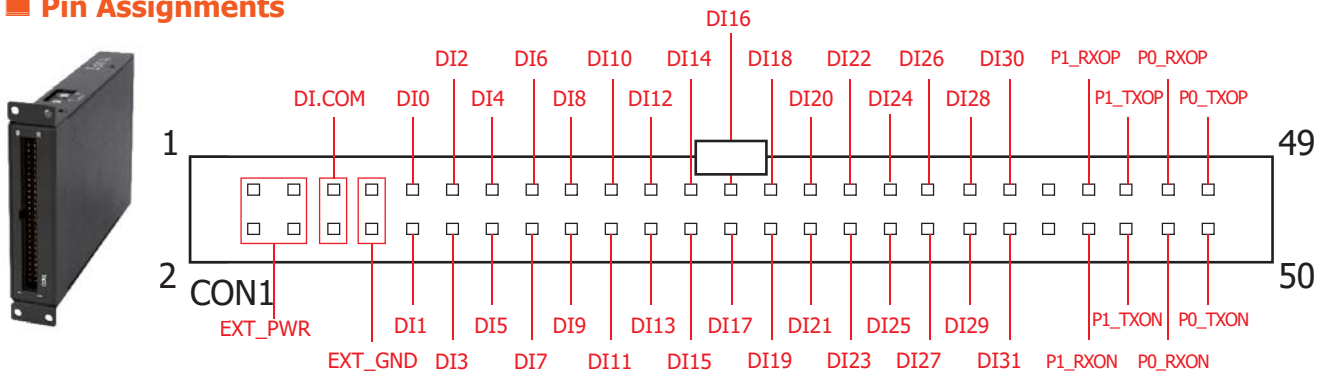
◼ Specifications

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	32
Type	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 V$_{DC}$
EtherCAT	
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
Power	
Input Range	+24 VDC
Consumption	3 W
Mechanical	
Casing	Metal with IP40
Dimensions (mm)	20 x 98 x 120 (W x L x D)
Environment	
Operating Temperature	-25 ~ +75°C
Storage Temperature	-30 ~ +80°C
Humidity	10 ~ 90% RH, Non-condensing

■ Wire Connections

Digital Input/Counter	Readback as 1	Readback as 0
Sink	+10 ~ +24V	OPEN or <4 V$_{DC}$
Source	+10 ~ +24V	OPEN or <4 V$_{DC}$
Dry Contact	Close to GND	Open

■ Pin Assignments

■ Dimensions (Units: mm)

| Left View | Front View | Right View | Rear View | Top View | Bottom View |
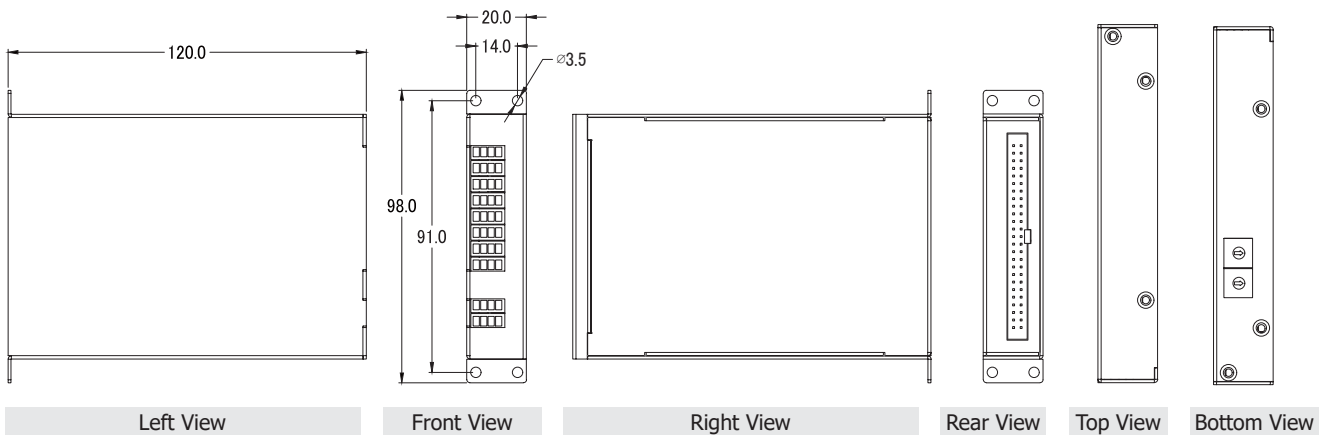
■ Ordering Information

EC1-P32 CR	EtherCAT Slave I/O Module with Isolated 32-channel Digital Inputs (RoHS)