EC2-P32
EtherCAT Slave I/O Module with Isolated 32-channel Digital Inputs

■ Features

- 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 isolated 32-channel digital inputs
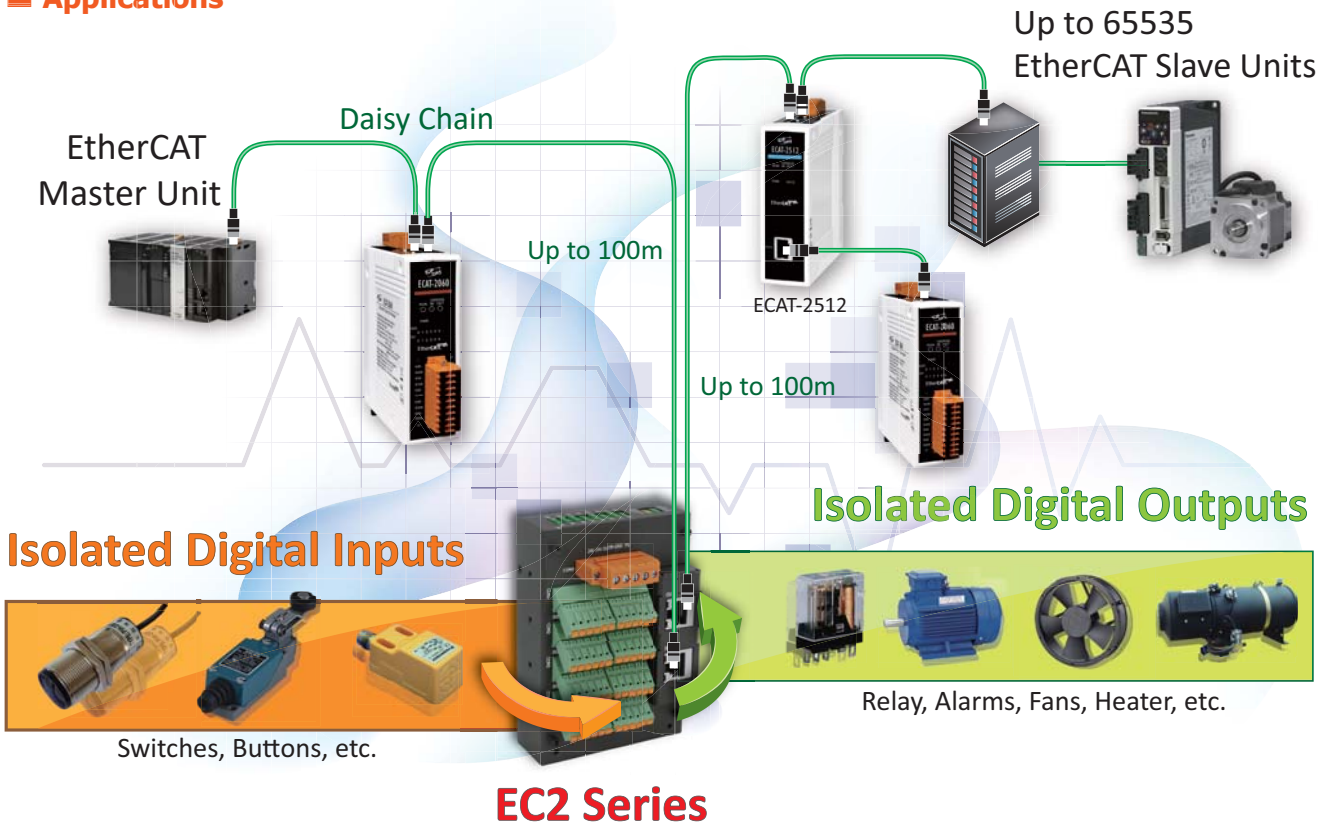- Low Pass Filter

■ Introduction

The EC2-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 status not only via the process data but also from its LED indicators. The EC2-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.

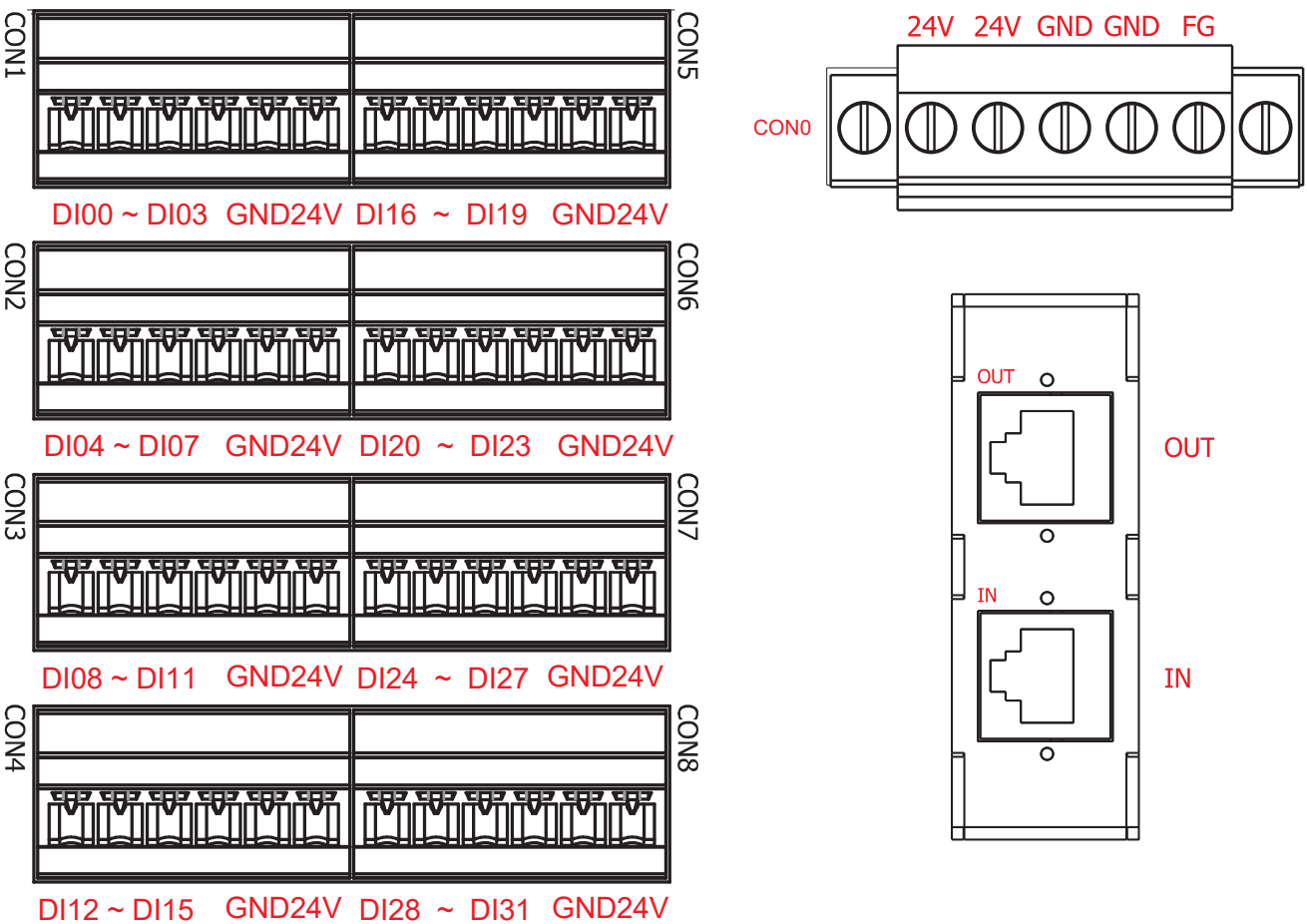∗ EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

■ 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 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
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

Applications

EtherCAT Master Unit

Daisy Chain

Up to 100m

Up to 65535 EtherCAT Slave Units

ECAT-2512

Up to 100m

Isolated Digital Inputs

Switches, Buttons, etc.

EC2 Series

Isolated Digital Outputs

Relay, Alarms, Fans, Heater, etc.

Pin Assignments

CON1 — DI00 ~ DI03   GND24V
CON5 — DI16 ~ DI19   GND24V

CON2 — DI04 ~ DI07   GND24V
CON6 — DI20 ~ DI23   GND24V

CON3 — DI08 ~ DI11   GND24V
CON7 — DI24 ~ DI27   GND24V

CON4 — DI12 ~ DI15   GND24V
CON8 — DI28 ~ DI31   GND24V

CON0 — 24V 24V GND GND FG

OUT

IN

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

Dimensions (Units: mm)

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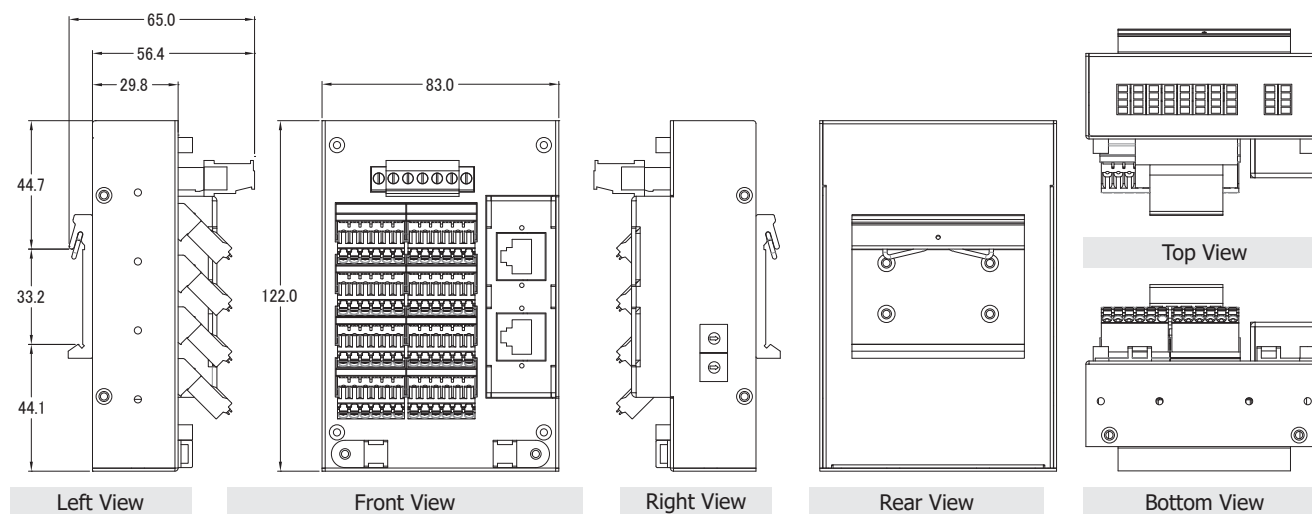
Ordering Information

EC2-P32 CR	EtherCAT Slave I/O Module with Isolated 32-channel Digital Inputs (RoHS)