EC2-C32
EtherCAT Slave I/O Module with Isolated
32-channel Digital Outputs

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 outputs
- Configurable Power-on Value Settings
- Keep output values after state machine change
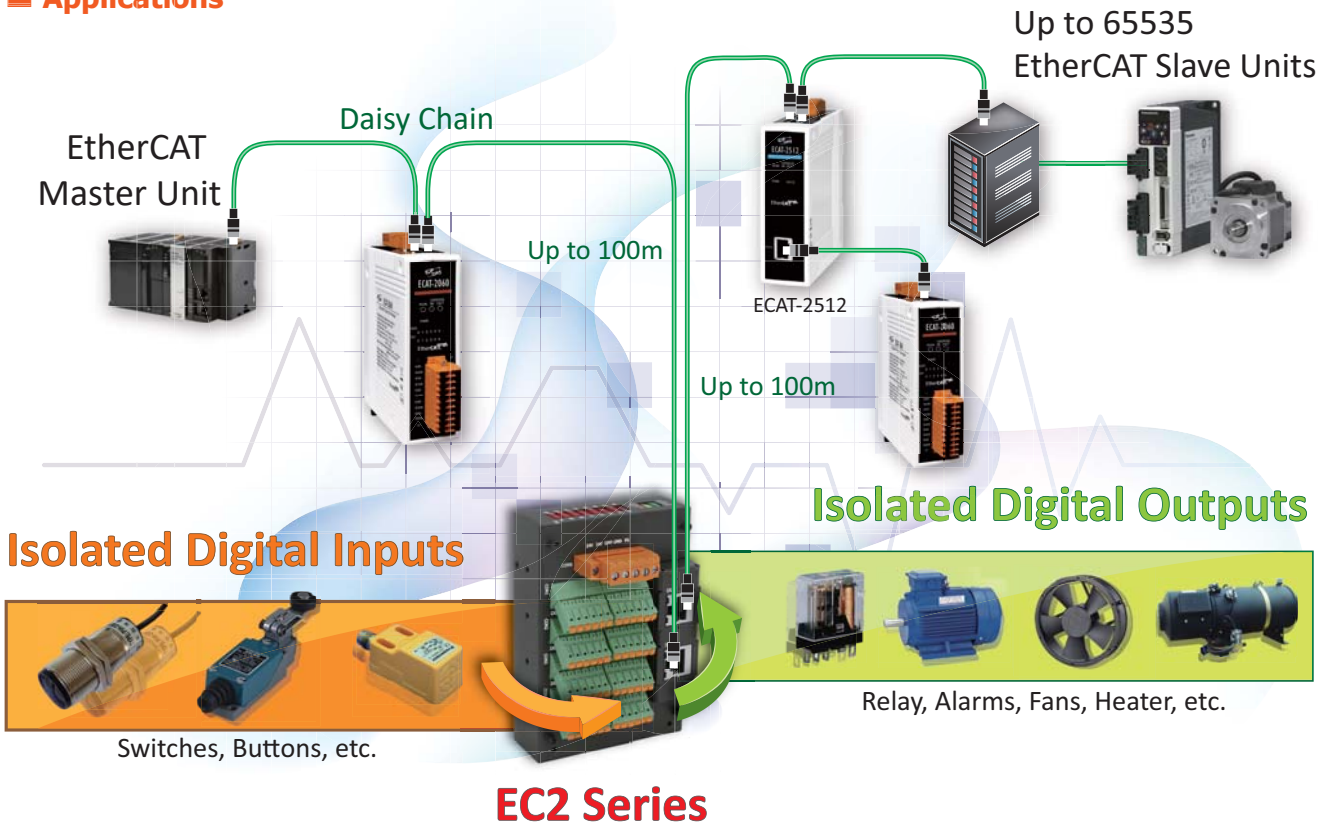
Introduction

The EC2-C32 is an industrial slave I/O module built in 32 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 output status not only via the process data but also from its LED indicators. The EC2-C32 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.
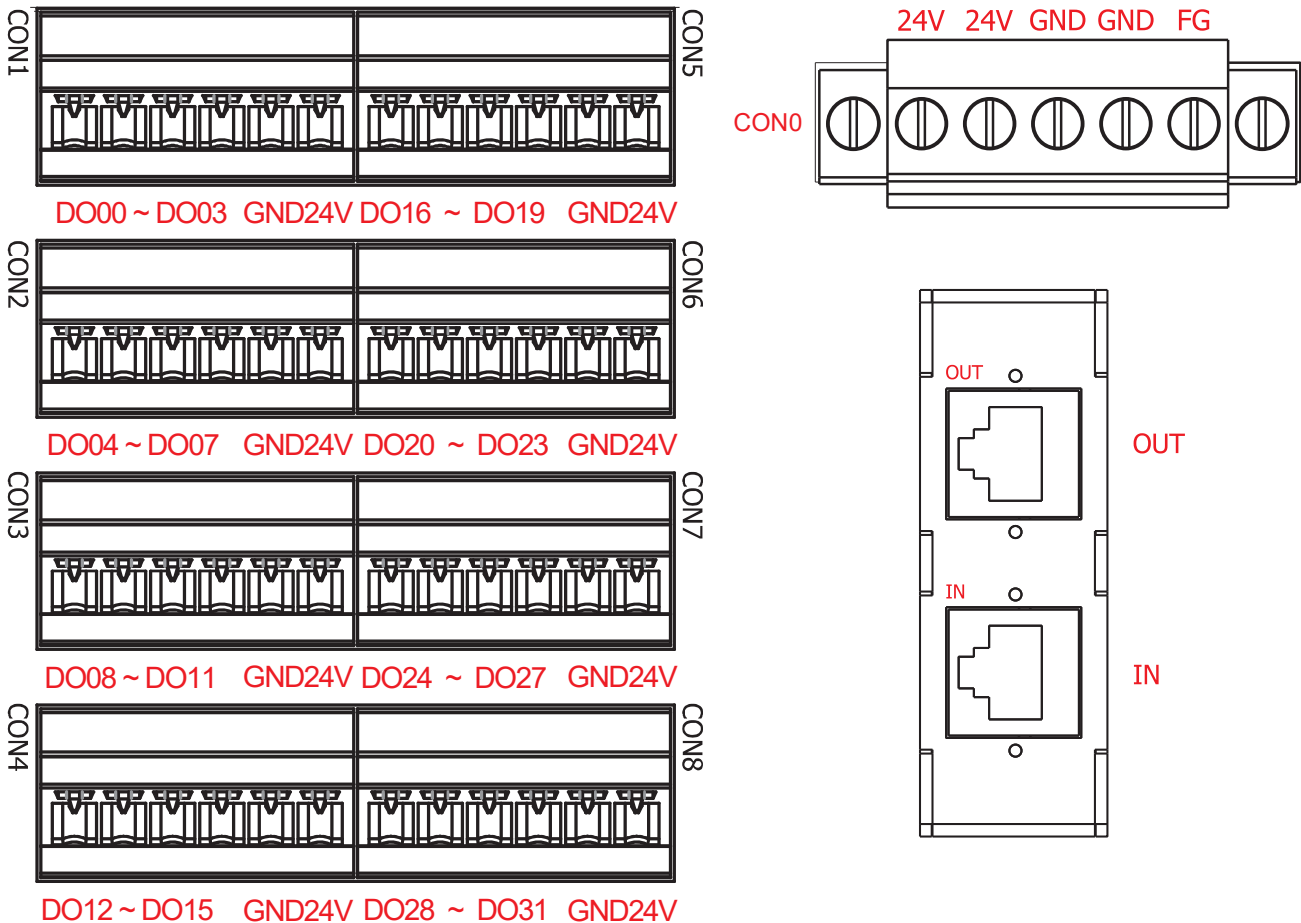
Specifications

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 Output	
Channels	32
Type	Open Collector (Sink),with internal flywheel diode
Load Voltage	40 VDC Max.
Load Current	150 mA/Channel (Sink) @ 25°C 100 mA/Channel (Sink) @ 60°C
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
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 65535 EtherCAT Slave Units

Up to 100m

ECAT-2512

Up to 100m

Isolated Digital Inputs

Switches, Buttons, etc.

EC2 Series

Isolated Digital Outputs

Relay, Alarms, Fans, Heater, etc.

■ Pin Assignments

CON1 — DO00 ~ DO03   GND24V
CON5 — DO16 ~ DO19   GND24V

CON2 — DO04 ~ DO07   GND24V
CON6 — DO20 ~ DO23   GND24V

CON3 — DO08 ~ DO11   GND24V
CON7 — DO24 ~ DO27   GND24V

CON4 — DO12 ~ DO15   GND24V
CON8 — DO28 ~ DO31   GND24V

CON0 — 24V 24V GND GND FG

OUT

IN

Wire Connections

Output Type	ON State Readback as 1	OFF State Readback as 0
Drive Relay	24V / DOx / GND	24V / DOx / GND
Resistance Load	24V / DOx / GND	24V / DOx / GND

Dimensions (Units: mm)

65.0
56.4
29.8
44.7
33.2
44.1

Left View

83.0
122.0

Front View

Right View

Rear View

Top View

Bottom View
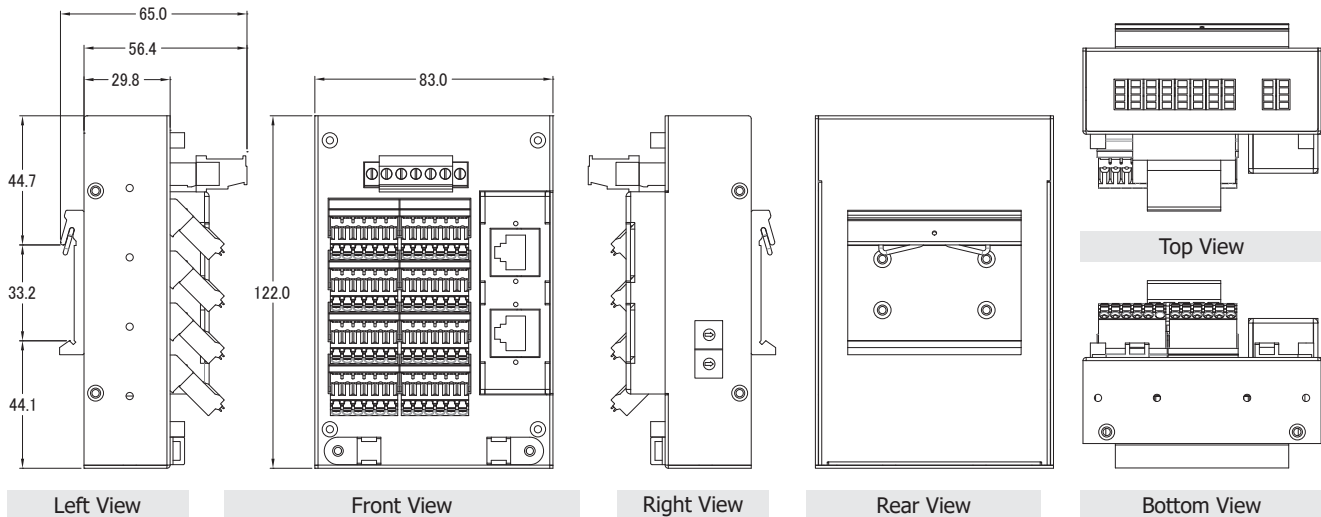
Ordering Information

EC2-C32 CR	EtherCAT Slave I/O Module with Isolated 32-channel Digital Outputs (RoHS)