EtherCAT

ECAT-2045-32/ECAT-2045K-32

EtherCAT SubDevice I/O Module with Isolated 32-channel Digital Outputs

Features

- On the fly processing: EtherCAT
- Powerful MCU handles efficient network traffic
- 2 x RJ-45 bus interface
- Distance between stations up to 100 m (100BASE-TX)
- Support daisy chain connection
- EtherCAT conformance test tool verified
- Removable terminal block connector
- LED indicators for the output status
- Built-In isolated 32-channel digital outputs
- Keep output values after state machine change (only for ECAT-2045K-32)
- ESD Protection 4 KV Contact for each channel

Introduction

The ECAT-2045-32/ECAT-2045K-32 is an industrial SubDevice 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 input and output status not only via the process data but also from its LED indicators. The ECAT-2045-32/ECAT-2045K-32 has passed and verified by the conformance test tool, therefore eligible EtherCAT Main Device or configurator can manipulate it simply and implement your various applications easily.

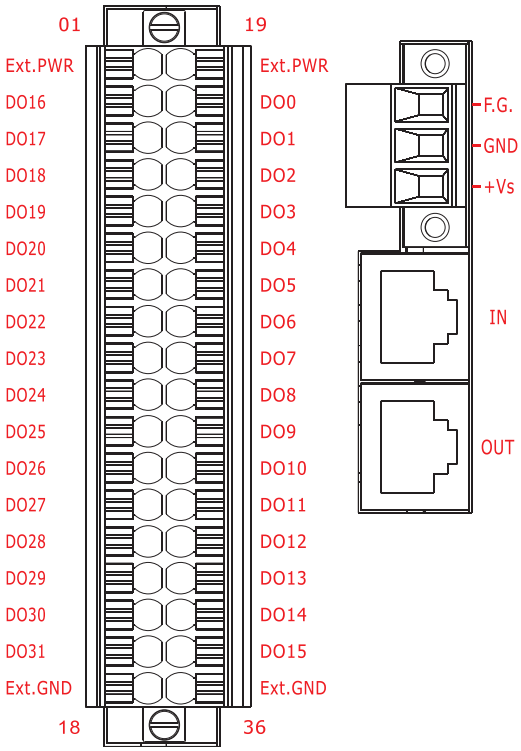
* EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

Hardware Specifications

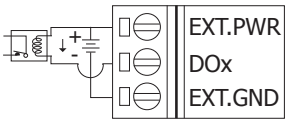
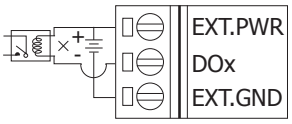
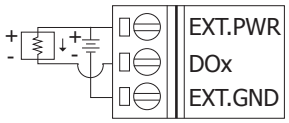
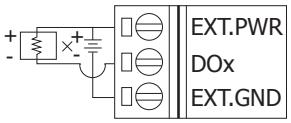
Digital Output	
Channels	32
Output Type	Open Collector (Sink ,NPN)
Load Voltage	+3.5 ~ +50 V
Max. Load Current	500 mA per channel
Isolation Voltage	3750 VDC
EtherCAT	
Ports	2 x RJ-45
Distance Between Stations	100 m Max. (100BASE-TX)
Data Transfer Medium	Ethernet/EtherCAT Cable (Min. CAT 5), Shielded
Cycle Time	1 ms
Distributed Clocks	Yes
EMS Protection	
ESD (IEC 61000-4-2)	±4 kV Contact for Each Terminal
EFT (IEC 61000-4-4)	Signal: 1 KV Class A; Power: 1 KV Class A
Surge (IEC 61000-4-5)	1 KV Class A
Power	
Input Voltage Range	+10 ~ +30 VDC
Power Consumption	4 W Max.
Mechanical	
Dimensions (W x L x H)	31 mm x 157 mm x 126 mm
Installation	DIN-Rail Mounting
Casing	Plastic
Environment	
Operating Temperature	-25 ~ +75°C
Storage Temperature	-30 ~ +80°C
Relative Humidity	10 ~ 90% RH, Non-condensing

Applications

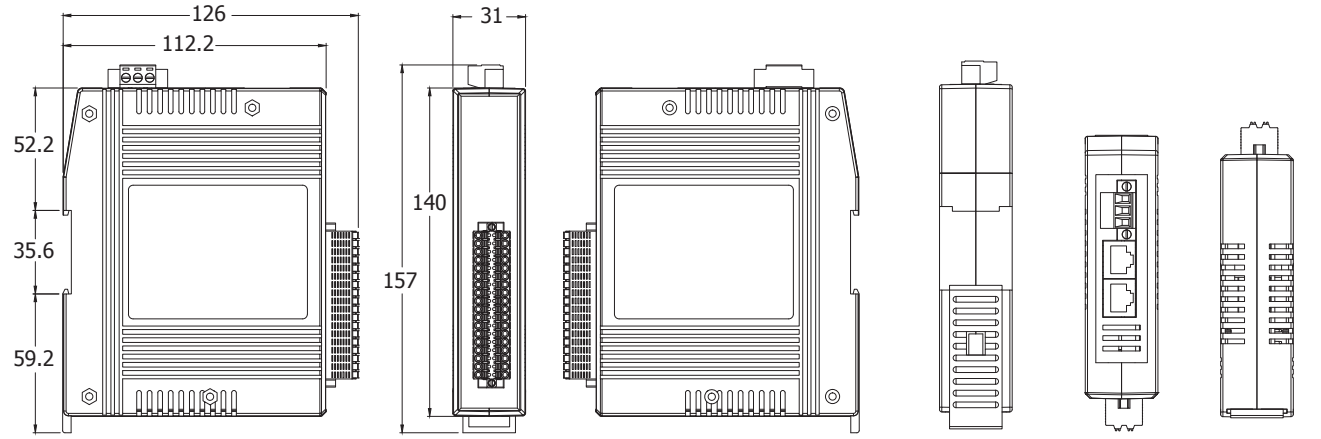
Pin Assignments



Wire Connections

Output Type	ON State Readback as 1	OFF State Readback as 0
Drive Relay		
Resistance Load		

Dimensions (Units: mm)



Left Side View | Front View | Right Side View | Rear View | Top View | Bottom View

Ordering Information

ECAT-2045-32 CR	EtherCAT SubDevice I/O Module with Isolated 32-channel Digital Outputs (RoHS)
ECAT-2045K-32 CR	EtherCAT SubDevice I/O Module with Isolated 32-channel Digital Outputs (Keep output value) (RoHS)