

EtherCAT®



ECAT-2051-32

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

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 input status
- Built-In isolated 32 digital inputs
- ESD Protection 4 kV Contact for each channel



Introduction

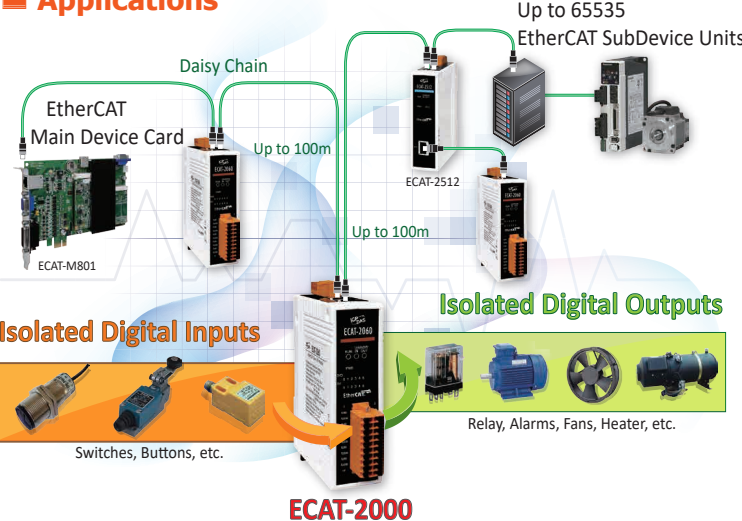
The ECAT-2051-32 is an industrial SubDevice I/O module built in 16 digital inputs. It is equipped with the EtherCAT* protocol and installed by daisy chain connection that provides a more scalable system with fewer wires. Users can obtain the input and output status not only via the process data but also from its LED indicators. The ECAT-2051-32 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.

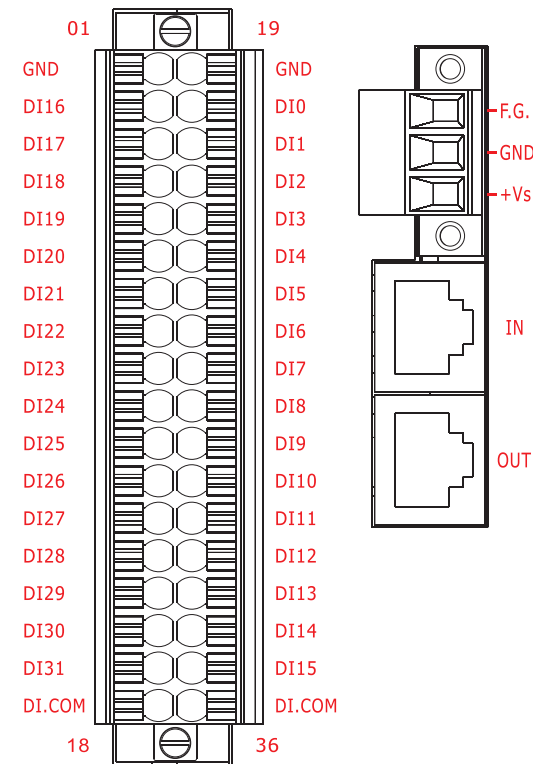
Hardware Specifications

Digital Input	
Channels	32
Input Type	Wet (Sink/Source)/ Dry (Source)
ON Voltage Level	Dry: Close to GND Wet: +10 V ~ +50 V
OFF Voltage Level	Dry: Open Wet: +4 V Max.
Photo-Isolation	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

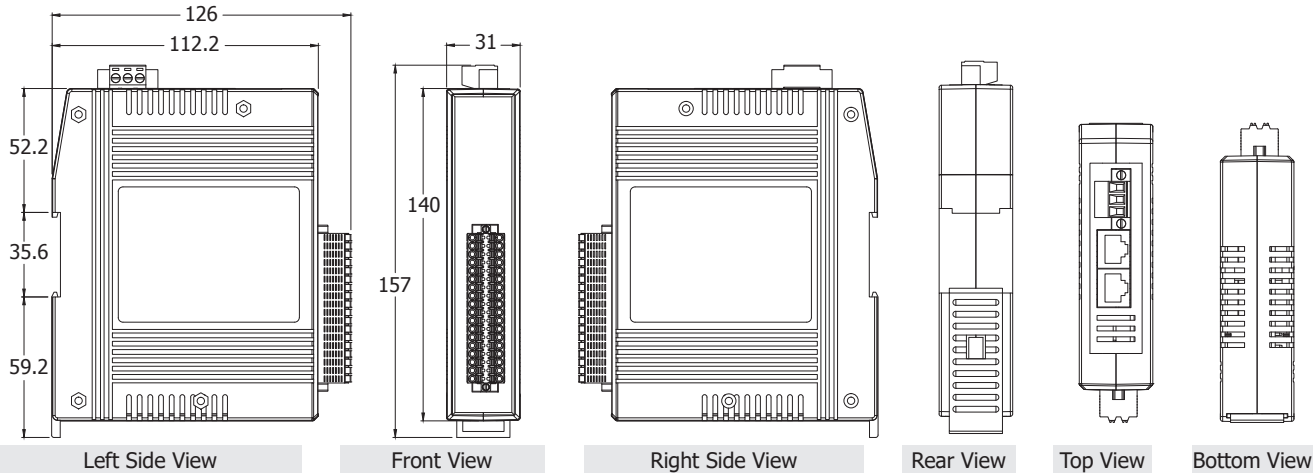


Wire Connections

Digital Input/Counter	Readback as 1	Readback as 0
Sink	+10 ~ +50 Vdc	OPEN or <4 Vdc
Source	+10 ~ +50 Vdc	OPEN or <4 Vdc

Digital Input/Counter	Readback as 1	Readback as 0
Dry	Close to GND	Open

Dimensions (Units: mm)



Ordering Information

ECAT-2051-32 CR	EtherCAT SubDevice I/O Module with Isolated 32-channel Digital Inputs (RoHS)
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