ECAT-2513/ECAT-2515
EtherCAT Junction Slave Module

Features

- Powerful MCU handles efficient network traffic
- Distance between Stations up to 100 m (100BASE-TX)
- Support daisy chain and star connection
- EtherCAT conformance test tool verified
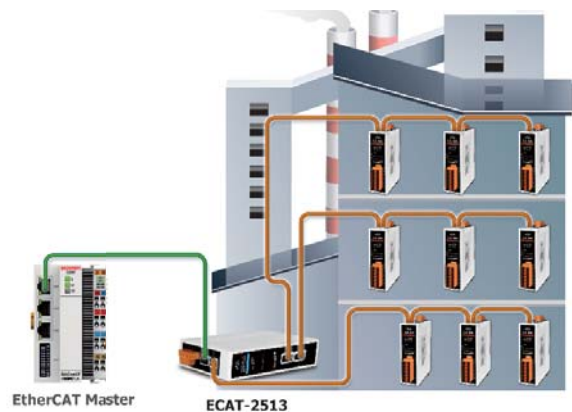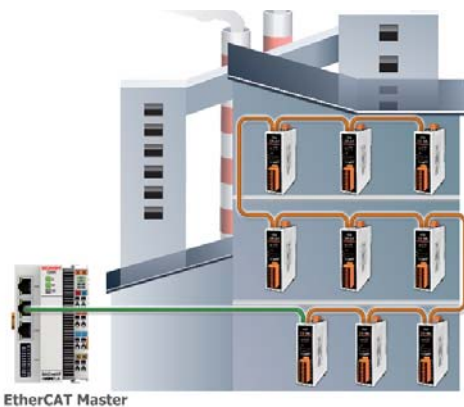- ESD Protection 4 KV Contact for each port

Introduction

ECAT-2513/ECAT-2515 are 4-port/6-port EtherCAT junction slaves. They are designed for realizing flexible wiring by daisy chain and branch. The ECAT-2512/ECAT-2513/ECAT-2515 cannot be used as a standard Ethernet switch.
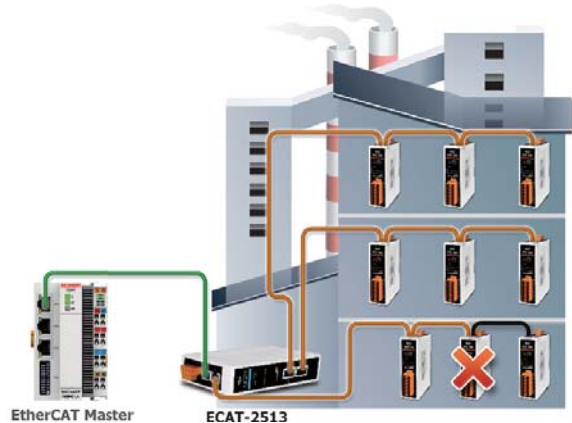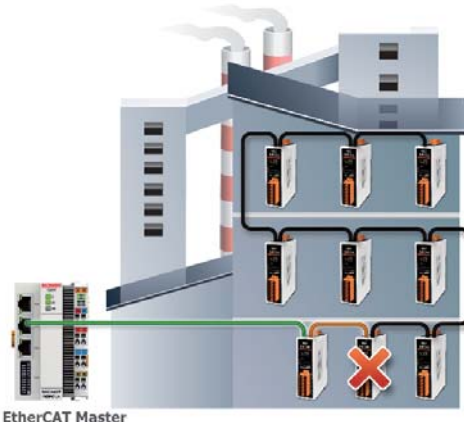
Applications

Benefit 1: Translate Daisy-chain to Branch Topology

EtherCAT junction slaves can realize branch topology. This makes the cabling easier than daisy-chain topology.

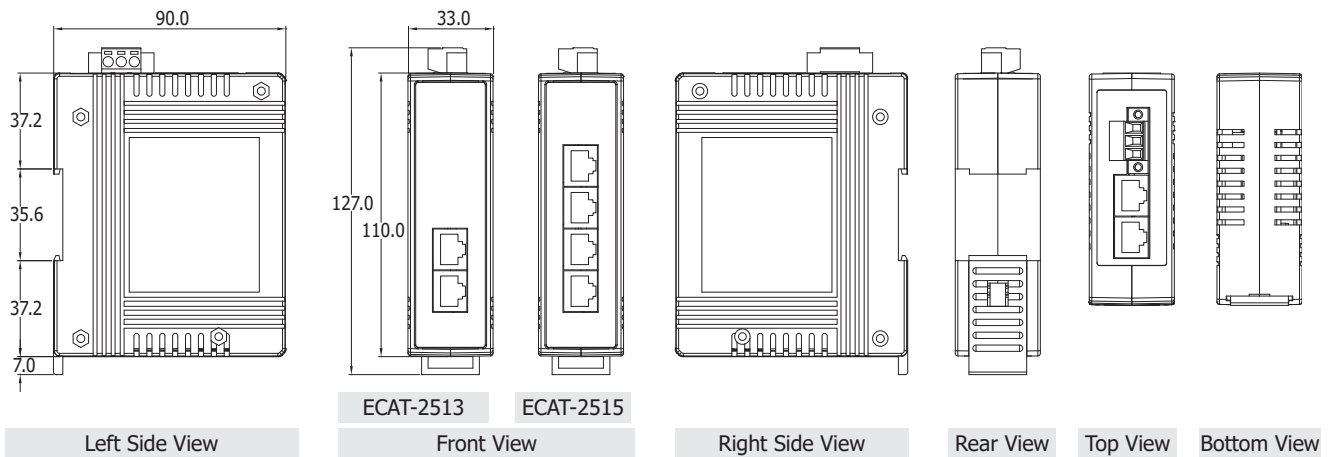

Benefit 2: Improving the Debugging Efficiency

If a slave device is not working or the cable is disconnected, the following slave devices on the same network all not communicate with the master controller. With EtherCAT junction slaves, all slave devices can be wired as separated sections. If one slave device failed, only the slave devices on the same section will be influenced. The EtherCAT junction slave keeps the slave devices on another section communicate with the master controller. Debugging can be made separately, thus improving the debugging efficiency

Hardware Specifications

Model	ECAT-2513	ECAT-2515
EtherCAT		
RJ-45 Port	4 x RJ-45 (1 IN; 3-OUT)	6 x RJ-45 (1 IN; 5-OUT)
No. of Nodes	2	4
Distance Between Stations	Max. 100 m (100BASE-TX)	
Power		
Reverse Polarity Protection	Yes	
Input Voltage Range	+10 ~ +30 VDC	
Power Consumption	0.06 A @ 24 VDC	
Mechanical		
Casing	Plastic	
Dimensions (W x L x H)	33 mm x 127 mm x 90 mm	
Installation	DIN-Rail Mounting	
Environment		
Operating Temperature	-25 ~ +75°C	
Storage Temperature	-30 ~ +80°C	
Relative Humidity	10 ~ 90% RH, Non-condensing	

Dimensions (Units: mm)

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

ECAT-2513   ECAT-2515

Ordering Information

ECAT-2513 CR	4-port EtherCAT Junction Slave Module (RoHS)
ECAT-2515 CR	6-port EtherCAT Junction Slave Module (RoHS)