



# ECAT-2512/ECAT-2513/ECAT-2515

EtherCAT Junction Slave Module

# 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

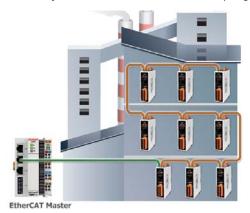
### **■** Introduction

ECAT-2512/ECAT-2513/ECAT-2515 are 1-to-2 port/1-to-3 port and 1-to-5 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.

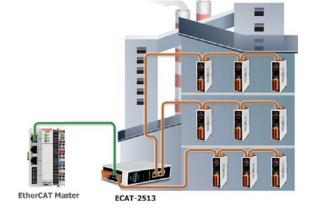
## Applications

## **Benefit 1: Translate Daisy-chain to Branch Topology**

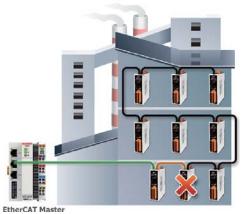
EtherCAT junction slaves can realize branch topology. This makes the cabling easier than daisy-chain topology.

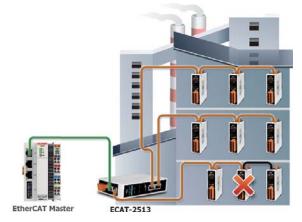


Benefit 2: Improving the Debugging Effi ciency



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 infl uenced. 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



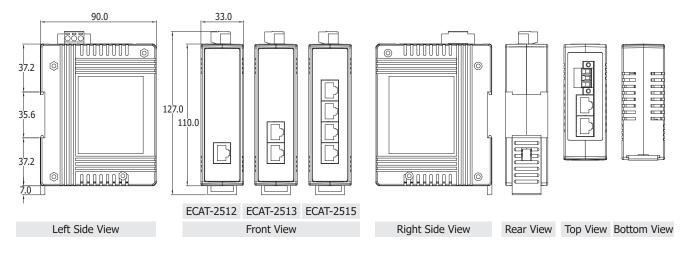


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# **■ Hardware Specifications**

Model	ECAT-2512	ECAT-2513	ECAT-2515
Network Interface			
Protocol	EtherCAT		
RJ-45 Port	3 x RJ-45 (1 IN; 2-OUT)	4 x RJ-45 (1 IN; 3-OUT)	6 x RJ-45 (1 IN; 5-OUT)
No. of Nodes	1	2	4
Distance Between Stations	Max. 100 m (100BASE-TX)		
Power			
Input Voltage Range	+10 ~ +30 VDC		
Power Consumption	0.06 A @ 24 Vpc		
Mechanical			
Dimensions (W x L x H)	33 mm x 127 mm x 90 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		

# **■** Dimensions (Units: mm)



# **■** Ordering Information

ECAT-2512 CR	1-to-2 Port EtherCAT Junction Slave Module (RoHS)	
ECAT-2513 CR	1-to-3 Port EtherCAT Junction Slave Module (RoHS)	
ECAT-2515 CR	1-to-5 Port EtherCAT Junction Slave Module (RoHS)	

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