

EtherCAT



**ECAT-2517**

8 Port EtherCAT Junction Slave Module

**Features**

- Maximum distance between Stations can be 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



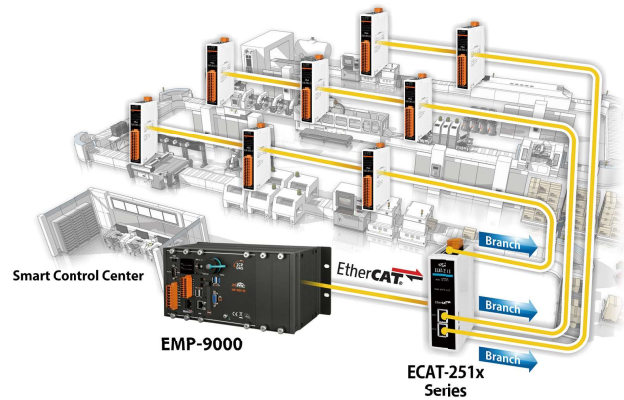
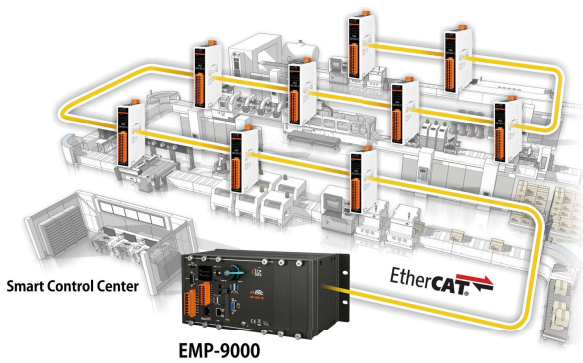
**Introduction**

ECAT-2517 is 1-to-7 port EtherCAT junction slave. They are designed for realizing flexible wiring by daisy chain and branch. The ECAT2517 cannot be used as a standard Ethernet switch.

**Applications**

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

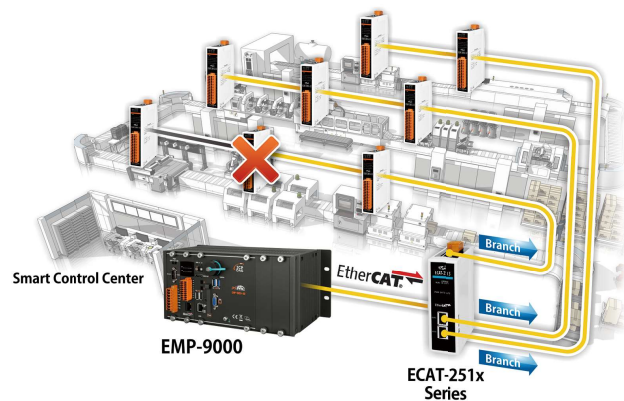
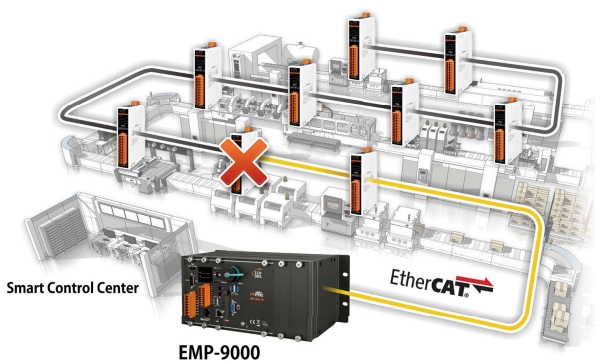
EtherCAT junction slaves can implement wiring in branch topology. The wiring of branch topology is easier than daisy-chain topology.



**Benefit 2: Improve the Debugging Efficiency**

For daisy-chain topology, if a slave device is not working or the cable is disconnected, all slave devices in the same network will not be able to communicate with the master controller.

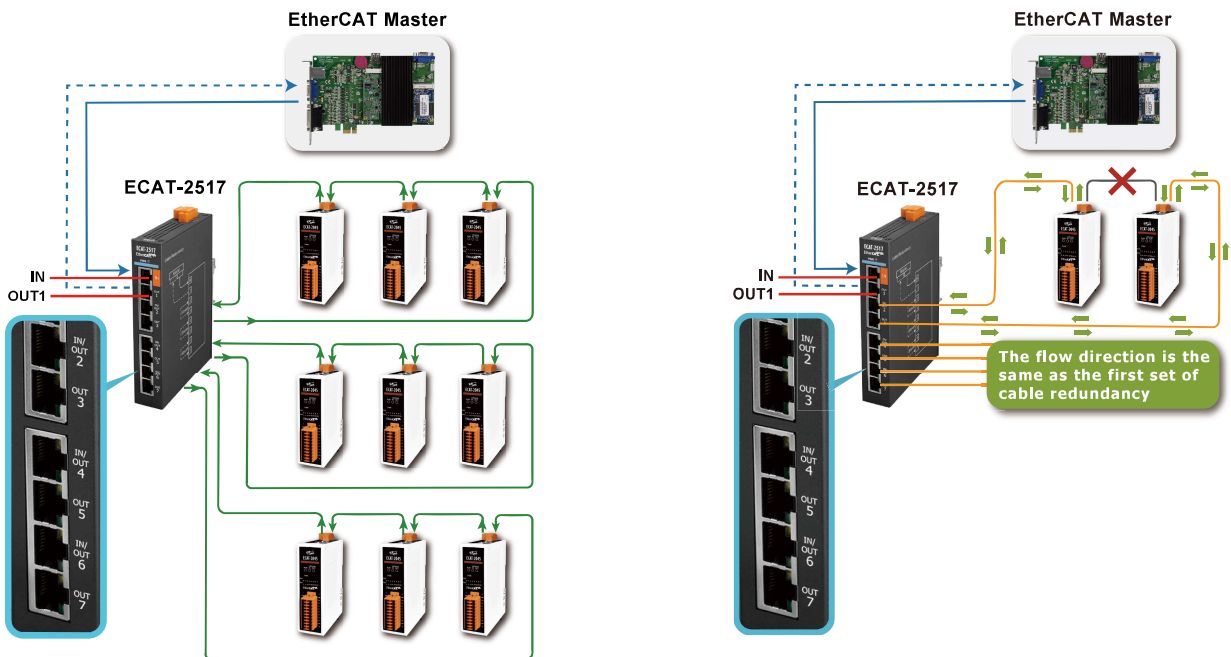
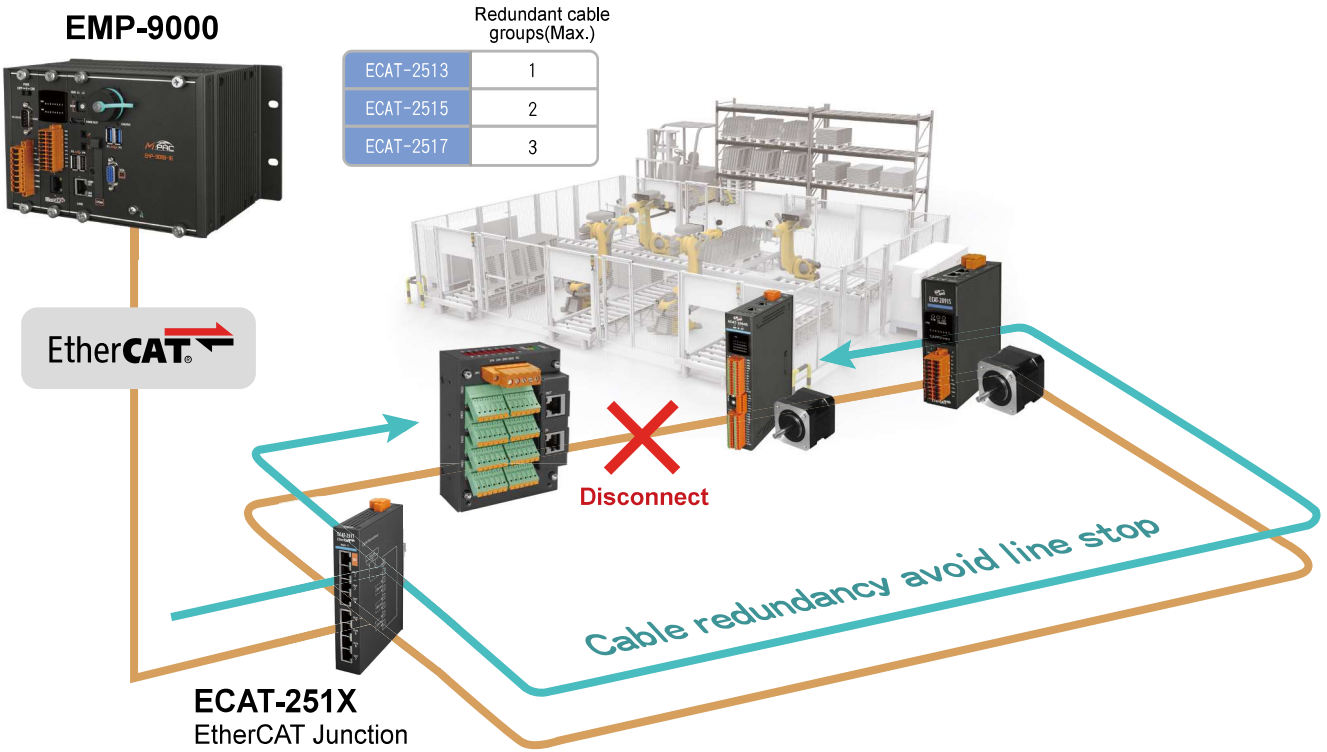
With EtherCAT junction slaves, all slave devices can be wired as separated sections. If one slave device is failed, only the slave devices in the same section will be affected. With the help of EtherCAT junction slave module, the slave devices in other sections still can communicate with the master controller. Debugging can be done separately, thus improving the debugging efficiency.



## Applications

### Cable Redundancy

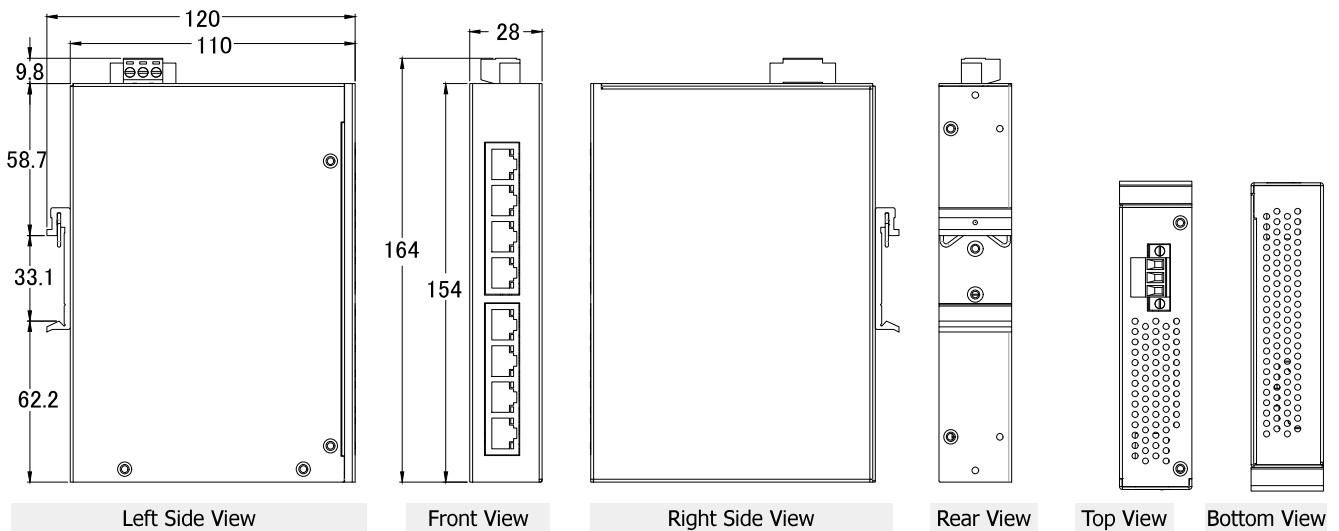
Cable redundancy is a ring topology. When the communication cable on one side is disconnected, it can also communicate through the cable on the other side to ensure the stable operation of the control system. The structure is as follows.



## Specifications

Model	ECAT-2517
<b>EtherCAT</b>	
Ports	8 x RJ-45 (1 IN; 7-OUT)
No. of nodes	6
Distance between Stations	Max. 100 m (100BASE-TX)
<b>Power</b>	
Reverse Polarity Protection	Yes
Input Range	+10 ~ +30 VDC
Consumption	0.23 A @ 24 VDC
<b>Mechanical</b>	
Casing	Metal
Dimensions (mm)	28 x 154 x 110 (W x L x H)
Installation	DIN-Rail
<b>Environment</b>	
Operating Temperature	-25 ~ 75 °C
Storage Temperature	-30 ~ 80 °C
Humidity	10 ~ 90% RH, non-condensing

## Dimensions (Units: mm)



## Ordering Information

<b>ECAT-2517 CR</b>	8-port EtherCAT Junction Slave Module (RoHS)
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