



Making Data Acquisition Easy

CAGE/NCAGE Code: 3FNFO

## EtherCAT Junction Slave Module

EtherCAT\* protocol stands for Ethernet for Control Automation Technology. It is one of the fieldbus systems designed by Beckhoff Automation. Industries can use EtherCAT to build real-time Ethernet networks for data communication and data acquisition. According to Beckhoff, EthernetCAT can distribute 1000 I/O in 30 micro second.

[ECAT-2512](#) and [ECAT-2513](#) are 1-to-2 port and 1-to-3 port EtherCAT junction slaves. They are designed for realizing flexible wiring by daisy chain and branch. Both junction slaves can be used with ICP DAS EtherCAT slave I/O modules, such as ECAT-2055 module, in order to complete a full system.



**ECAT-2512**



**ECAT-2513**

Note ECAT-2512/2513 cannot be used as a standard Ethernet switch.

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

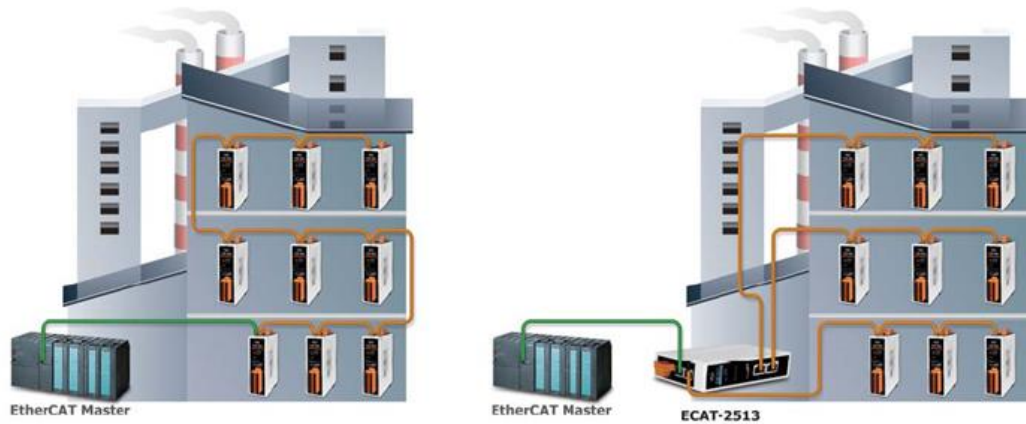


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### Benefit 1: Translate Daisy-chain to Branch Topology

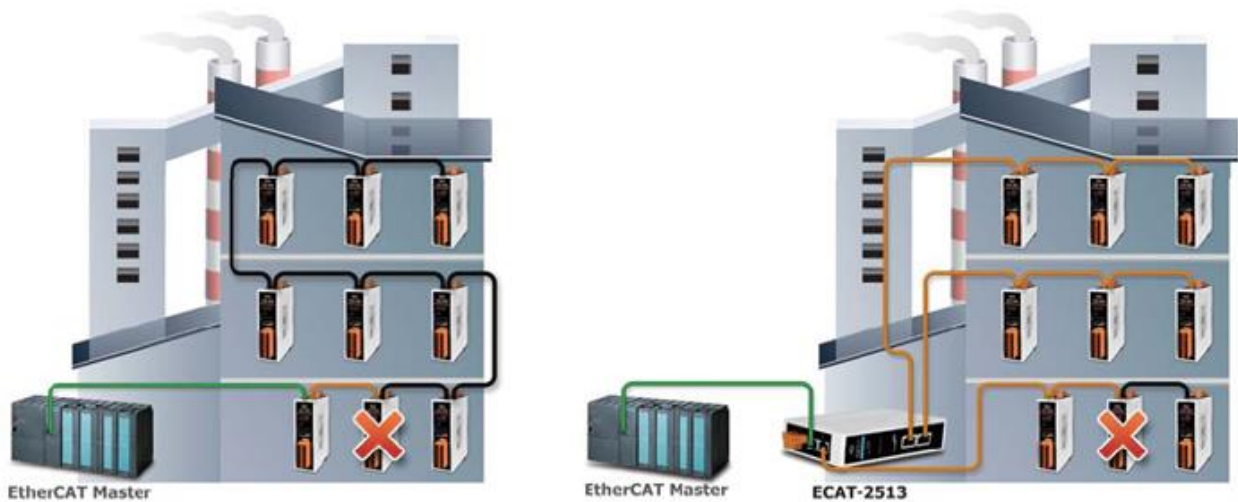
EtherCAT junction slaves can realize branch topology. They make the cabling easier than daisy-chain topology.



### 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 is 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.





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If you have other EtherCAT communication requirements or have some questions, we can certainly help you to choose the best solution. Please call our technical support team at (310) 517-9888 X102