

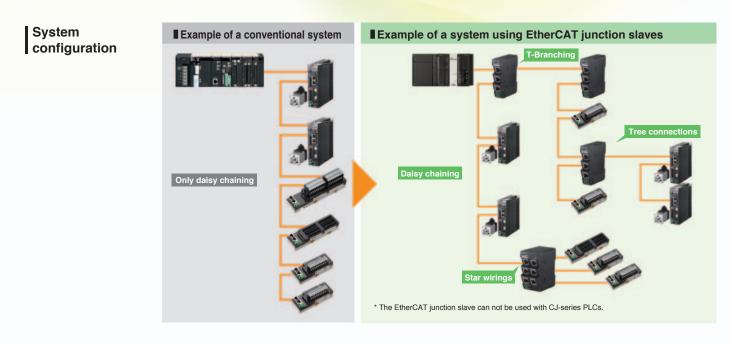
EtherCAT junction slaves

GX-JC03/JC06

Allows branching connections on EtherCAT networks for effective wiring



EtherCAT junction slaves enable the use of star and tree wiring configurations on EtherCAT. Improves efficiency in wiring and start-up by allowing components to be removed without breaking the daisy-chain.





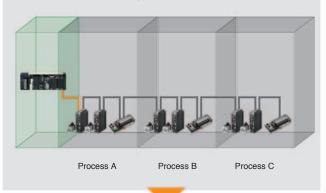
Advantages of EtherCAT junction slaves

Support for efficient equipment and system building

In a system that consists of plural processes, debugging work can be started with a process for which designing work has been completed.

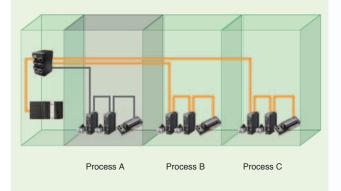
EtherCAT daisy chaining connection

The system can not start operation before installing and assembling all devices of all processes. (Neither Process B nor Process B can start operation before Process A has been built.)



EtherCAT branching connection

The slaves connected via EtherCAT junction slaves on Process B and Process C can operate, even though slaves for Process A do not operate. Debugging work of the processes can be made separately, thus improving debugging work efficiency.

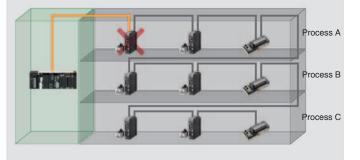


Improves system's operating rate

It is possible to design the system operation, considering errors such as EtherCAT slave failure and disconnection of communications cables. A part of the system can be separately operated, and the system can be promptly restored.

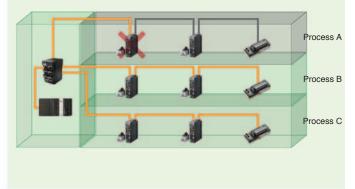
EtherCAT daisy chaining connection

If an error occurs on a slave, or the network cable is disconnected, slaves following on the same network can not communicate with the master unit. The operating rate of the system can be lowered, or maintenance work will be less efficient.



EtherCAT branching connection

With EtherCAT junction slaves, each process can be designed and wired as separated blocks. If an error occurs on one slave device, operation of the process that uses the slave stops, but that will not influence the entire system operation. The EtherCAT junction slave will contribute to prevention of loss of workpieces in process and prompt system restoration.



Ordering Information

| Product | name | No. of ports | Dimentions | Power supply voltage | Model | Standards |
|-----------------------------|------|--------------|--------------------|----------------------|---------|-----------|
| EtherCAT junction slaves | | 3 | W25 x H90 x D78 mm | DC24V | GX-JC03 | |
| | | 6 | W48 x H90 x D78 mm | DC24V | GX-JC06 | CE, UC1 |

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GX-JC03/JC06

General Specifications

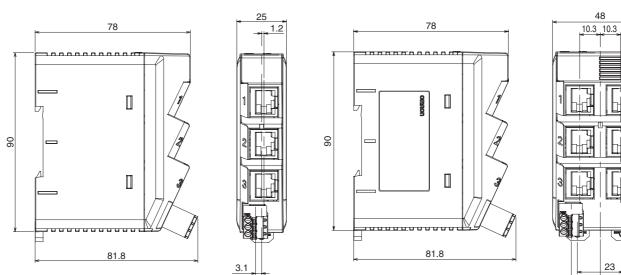
| Item | | Specifications | | |
|--------------------------|---|-----------------------------------|------------------------|--|
| | | GX-JC03 | GX-JC06 | |
| Common Specifications | Power supply voltage | 20.4 to 28.8 VDC | | |
| | Current consumption | 80 mA | 170 mA | |
| | Ambient operating temperature -10 to 55°C | | | |
| | Ambient operating humidity | 25% to 85% (with no condensation) | (with no condensation) | |
| | Ambient storage temperature | -25 to 65°C | | |
| | Ambient storage humidity | 25% to 85% (with no condensation) | | |
| | Dimensions | 25 mm × 78 mm × 90 mm | 48 mm × 78 mm × 90 mm | |
| | Weight | 165 g | 220 g | |

GX-JC06

Dimensions

(Unit: mm)





Functions

| Summary of Functions | GX-JC03 | GX-JC06 | |
|----------------------|-----------------|----------------|--|
| No. of ports | 3 (1 in 2 out) | 6 (1 in 5 out) | |
| No. of nodes | 1 | 2 | |
| Indicator | Power, Link/Act | | |
| Auto MDI/MDIX | Supported | | |
| Reference clock | Supported | | |

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