

## TOYOPUC EtherCAT Master Function

The current PLC manufactured by JTEKT acts as a control network to support industrial open networks such as FL-net, DeviceNet, CC-link, and EtherNet/IP. JTEKT has developed a new PLC product supporting EtherCAT, an industrial open network which uses Ethernet technology. The forefront, high speed communication technology and high flexibility of EtherCAT has led to its widespread usage mainly in Europe, as well as in North America and Asia. By installing EtherCAT master functions into the leading JTEKT PLC products such as TOYOPUC PC10G and TOYOPUC Plus, our company is able to build a remote IO network with faster speed and greater capacity than ever before.



TOYOPUC PC10G



TOYOPUC Plus

### Purpose

- ① Reduced equipment cycle time can be expected from faster network speed.
- ② Able to create optimized systems by expanding the range of device selection through an abundance of slave devices.

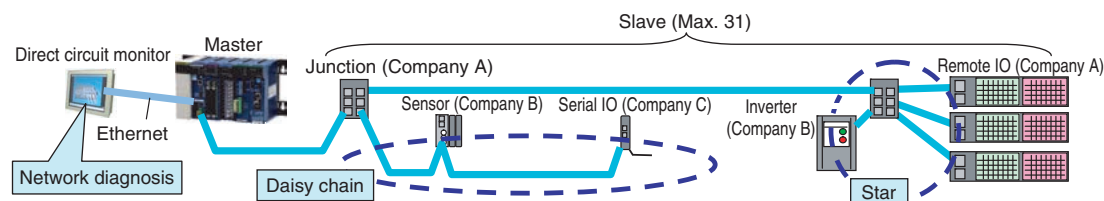
### Features

- ① High speed communication  
(30% faster than conventional JTEKT remote IO)
- ② Able to connect to a wide variety of slaves manufactured by other companies
- ③ Flexible network topology  
(Daisy chain/Star)
- ④ Network diagnosis function  
(Visualization of network by combining the network with a JTEKT direct circuit monitor)

### General Specifications

Item	Specification
Protocol	EtherCAT
Transfer speed	100 Mbps Full Duplex
Communication distance	Max. 100 m between nodes
Max. number of connections	32 (1 master, 31 slaves)
Input/output data size	Input: Max. 4 096 bytes Output: Max. 4 096 bytes
Process data communications	Free Run mode (Does not support DC mode)

### Example of device connections



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 \*2 EtherCAT is a registered trademark of Beckhoff Automation GmbH.  
 \*3 DeviceNet and EtherNet/IP are registered trademarks of ODVA, Inc.  
 \*4 CC-Link is a registered trademark of Mitsubishi Electric Corporation.

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**JTEKT CORPORATION**