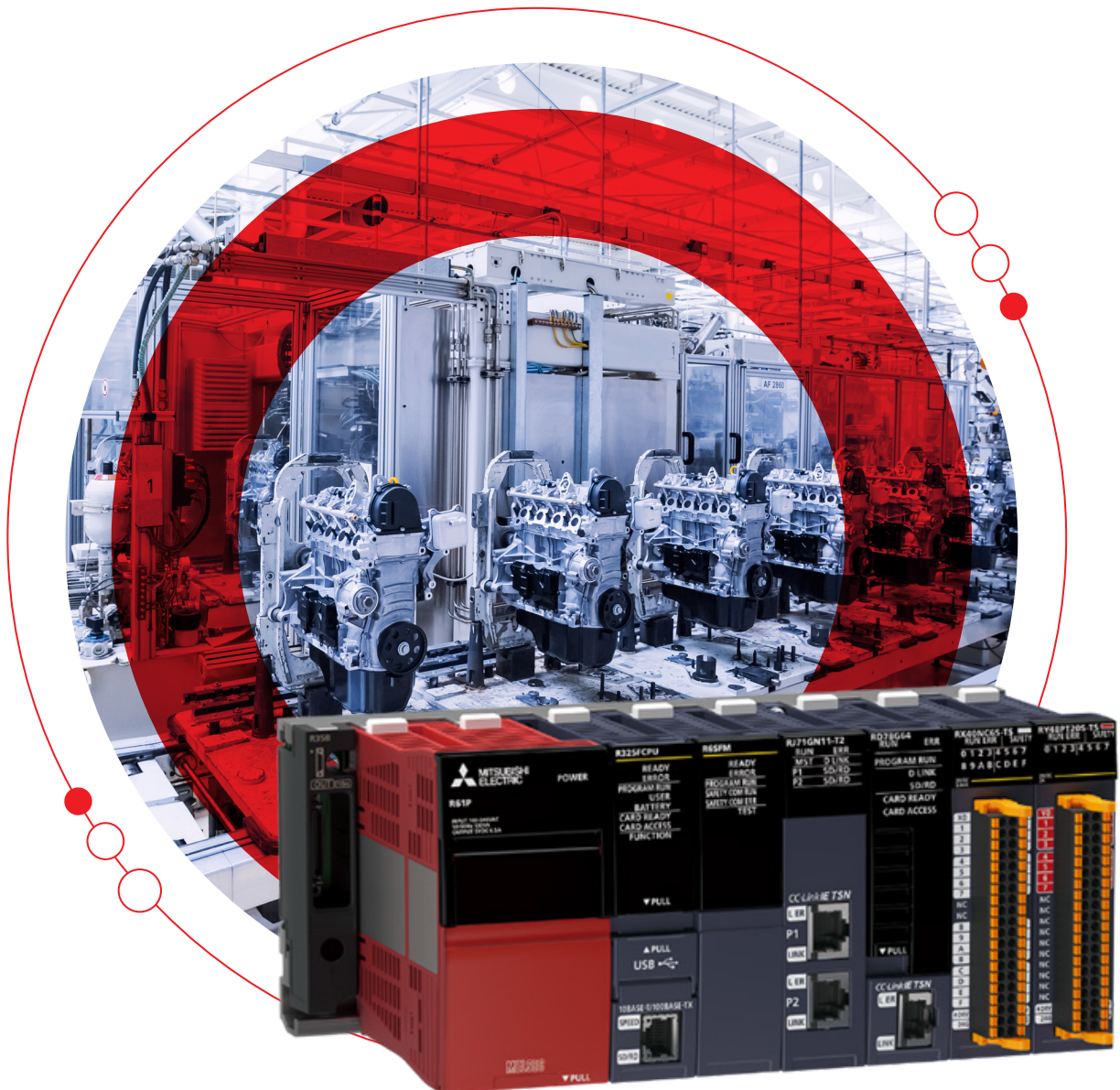FACTORY AUTOMATION

MELSEC iQ-R

Programmable modular industrial controls

High-Performance promotion sets

- High-performance control for demanding applications
- The foundation for your intelligent factory
- Improve the reliability of your infrastructure

iQ-R Overview

Mitsubishi Electric iQ-R Series PLC redefines industrial automation with ultra-fast processing, multi-CPU architecture, and seamless network connectivity. Its modular design allows flexible system expansion, adapting effortlessly to evolving needs. It maximizes performance while reducing downtime and costs. From manufacturing to high-speed machine control, the iQ-R Series is built for the future of automation.

Safety

The iQ-R Series PLC delivers advanced integrated safety with dedicated safety I/O modules. Designed for SIL3 (IEC 61508) and Ple (ISO 13849-1) compliance, it ensures the highest level of protection for personnel and equipment. Seamlessly integrate safety into the system, thanks to a single programming environment, for both standard and safety control, and compatibility with all products within the ecosystem. Coordinate safety with servo, inverters, robots and others, with ease.
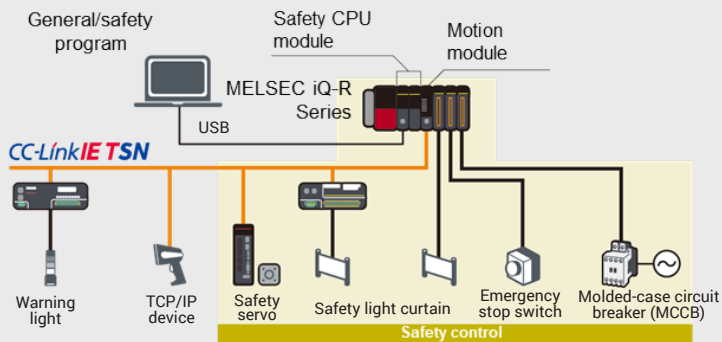
Motion

Our Motion modules, available in the **iQ-R Series** offer a wide range of control, synchronisation, camming and kinematics functions. With simple parameter settings and PLC programs, you can use these functions effortlessly and optimise your motion control with **very short communication cycle of 31.25 µs over CC-Link IE TSN** as Motion modules are also masters of this innovative network protocol. With either 4, 8, 16, 32, 64, 128 or 256-axis motion modules, up to 3 of them can be connected to a single iQ-F CPU, allowing even **768 axes to be fully controlled in total, with a network bandwith of 1 Gbps**. Additionally iQ-R Motion modules **support Add-ons e.g. for G Code control**.

When using **MR-J5** servo drives series with **iQ-R safety** PLC User gains access to various drives **functional safety Functions like STO, SS1, SS2, SLS,SOS** etc. over the CC-Link IE TSN network.

Networking

Using the high-speed, real-time, **CC-Link IE TSN** communication, we can connect up to 120 various devices for one master station.
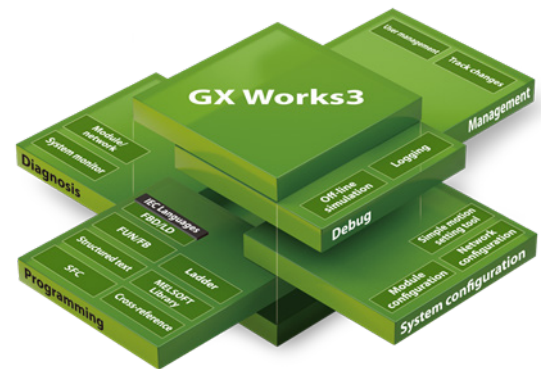
CC-Link IE TSN can execute **both safety and general devices**, enabling easy integration into existing or new control systems, reducing costs and saving space. Use general Ethernet cables, mix general and safety communications on one network and combine with TCP/IP communications.

Programming Environment for PLC & Motion

GX Works3 is a **powerful programming environment** for all Mitsubishi Electric PLC & Motion systems. With a graphical and intuitive user interface and easy programming according to IEC 61131-3, GX Works3 offers a **user-friendly experience**.

The simple operation and extensive diagnostic functions help to reduce development costs and enable efficient troubleshooting. GX Works3 is a license software with one-off costs and free updates.

All additional functions, such as Simple Motion or the real-time monitor, are included as standard.

Promotion Sets

Order Number	Product Name	Description	Price
741161	R08SFCPU-SET-AC-M8-G	iQ-R Safety CPU;AC; 80 Ksteps; R6SFM;5-slot; 8Ax (CCL IE TSN); 16In Safety	2700
741162	R08SFCPU-SET-DC-M8-G	iQ-R Safety CPU;DC; 80 Ksteps; R6SFM;5-slot; 8Ax (CCL IE TSN); 16In Safety	2700
741163	R16SFCPU-SET-AC-M16-G	iQ-R Safety CPU;AC; 160 Ksteps; R6SFM;5-slot; 16Ax (CCL IE TSN); 16In Safety	3700
741164	R16SFCPU-SET-DC-M16-G	iQ-R Safety CPU;DC; 160 Ksteps; R6SFM;5-slot; 16Ax (CCL IE TSN); 16In Safety	3700

Engineering Software

Order Number	Product Name	Description	Price
736449	iQ Works	iQ Works, incl. Navigator/GX Works/GT Works/MT Works, English, 1 Licence Email	400
736442	GX Works3	PLC Programming Software for MELSEC iQ-R/F, English, 1 Licence Email	240

*The campaign is limited while supplies last

Mitsubishi Electric's e-F@ctory concept utilises both FA and IT technologies to reduce the total cost of development, production and maintenance, with the aim of achieving manufacturing that is 'one step Ahead of the curve'. It is supported by e-F@ctory Alliance partners covering software, equipment and system integration, creating the optimal e-F@ctory architecture to meet end customers' needs and investment plans.

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Changes for the Better