MELSEC iQ-R SERIES
PRODUCT OVERVIEW

- **Multi CPU architecture**
- **Seamless integration**
- **Proactive maintenance**

Bridging the Next Generation of Automation with iQ-R Series

Mitsubishi Electric's iQ-R Series is a cutting-edge automation platform designed to revolutionize industrial control systems. With its advanced performance, unparalleled reliability, and innovative features, the iQ-R Series sets a new standard in automation technology. It offers seamless integration, great flexibility, and enhanced productivity to stay ahead in today's fast-paced industrial automation market. Discover the future of automation with the iQ-R Series, where precision meets performance for unmatched results.
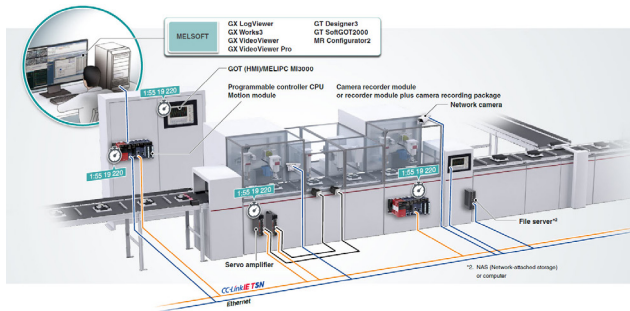

KEY BENEFITS:

- 0.98 ns execution speed improves machine response for faster, more accurate applications
- Multi-discipline control with up to 4 CPUs in a single rack and a high speed bus allow for synchronized data communication between process, motion, and sequential control including safety
- Variety of network options such as EtherNet/IP™, CIP Safety, PROFINET® and CC-Link® IE TSN network with deterministic performance over industrial Ethernet improves machine response and I/O synchronization
- Powerful preventive maintenance features such as system recorder, CPU Data Logging, Web Server, PLC program backup/restore
- Built-in SD memory card database provides recipe and data logging functionality without the need for an external server
- Enhanced security features to protect intellectual property as well as plant safety
- Includes free and self-firmware update function
- GX Works3 programming software IEC61131-3 compliant with built-in functions and configuration screens reduces development and troubleshooting time

Proactive Maintenance Solution – The system recorder ensures the resumption of operations, reducing downtime through system-wide data recording and simplified analysis software features. This includes:

- Identifying error causes by recording various equipment and device data, along with real-time video feed.
- Analyzing data flow to understand the root cause of failures.
- Sharing this information with your MES system using the iQ-R Series MES or OPC UA module for visualization purposes.

Integrated Safety Solution – Safety CPU enables control of both general and safety programs in the same module and can be easily programmed using the intuitive features of GX Works3 software.

- Supported safety networks include CC-Link IE TSN, CC-Link IE Field, and CIP Safety.

GX Works3 Integrated PLC Software – For standard, safety, and motion control, reducing program development time.

- Compliant with IEC61131-3 standards.
- Quick to verify module compatibility.
- Effective in decreasing design and engineering time.
- Able to leverage existing programs.
- Equipped with diagnostic tools to shorten troubleshooting time.
- Easy to convert the MELSEC-A/-Q Series programs.

Robust Security – iQ-R Series offers variety of security functions to protect intellectual property and unauthorized access across distributed control network.

- Hardware and software key – security key authentication protecting project data.
- File and block password – protect CPU file and/or program function blocks and functions within POU (Program Organization Unit) from unauthorized access.
- IP address – blocks unauthorized connection from non-registered devices.

MITSUBISHI ELECTRIC AUTOMATION, INC.

500 Corporate Woods Parkway, Vernon Hills, IL 60061
Ph 847.478.2100 • Fx 847.478.2253

us.MitsubishiElectric.com/fa/en