Bridging the next generation of automation

MELSEC iQ-R Series
iQ Platform-compatible PAC
Revolutionary, next-generation controllers building a new era in automation

MELSEC iQ-R series

As the core for next-generation automation environment, realizing an automation controller with added value while reducing TCO*

To succeed in highly competitive markets, it's important to build automation systems that ensure high productivity and consistent product quality. The MELSEC iQ-R Series has been developed from the ground up based on common problems faced by customers and rationalizing them into seven key areas: Productivity, Engineering, Maintenance, Quality, Connectivity, Security and Compatibility. Mitsubishi Electric is taking a three-point approach to solving these problems: Reducing TCO*, increasing Reliability and Reuse of existing assets.

As a bridge to the next generation in automation, the MELSEC iQ-R Series is a driving force behind revolutionary progress in the future of manufacturing.

*TCO: Total cost of ownership

Productivity

Improve productivity through advanced performance/functionality

- New high-speed system bus realizing shorter production cycle
- Super-high-accuracy motion control utilizing advanced multiple CPU features
- Inter-modular synchronization resulting in increased processing accuracy

Engineering

Reducing development costs through intuitive engineering

- Intuitive engineering environment covering the product development cycle
- Simple point-and-click programming architecture
- Understanding globalization by multiple language support

Maintenance

Reduce maintenance costs and downtime utilizing easier maintenance features

- Visualize entire plant data in real-time
- Extensive preventative maintenance functions embedded into modules

Quality

Reliable and trusted MELSEC product quality

- Robust design ideal for harsh industrial environments
- Improve and maintain actual manufacturing quality
- Conforms to main international standards
Security

Robust security that can be relied on

- Protect intellectual property
- Unauthorized access protection across distributed control network

Connectivity

Seamless network reduces system costs

- Seamless connectivity within all levels of manufacturing
- High-speed and large data bandwidth ideal for large-scale control systems
- Easy connection of third-party components utilizing device library

Compatibility

Extensive compatibility with existing products

- Utilize existing assets while taking advantage of cutting-edge technology
- Compatible with most existing MELSEC-Q Series I/O

Productivity

Engineering

Maintenance

Quality
Productivity

Improve productivity through advanced performance/functionality

Integrating high-performance capabilities based on the high-end iQ-R system bus, high-speed network, and an advanced motion control system; applications requiring these characteristics can be easily realized using the MELSEC iQ-R Series as the core of the automation system.

New high-speed system bus realizes improved production cycle

The newly developed high-speed system bus is 40-times faster compared to existing models, realizing very fast and large-capacity data processing between modules (network, I/O, multi-CPU, etc.), enabling the optimum utilization of MELSEC iQ-R Series performance and functionality.

Multi-CPU system realizes very accurate motion control

By supporting synchronized data communications between the programmable controller CPU and motion CPU via the high-speed system bus, performance is improved by up to four times compared to existing models, easily realizing super-high motion control accuracy.

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*1: Compared to MELSEC-Q Series.
*2: Compared to Q173DSCPU/Q172DSCPU.
New controller performance architecture further reduces H/W costs

High-speed processing of structured programs

The processing performance of the controller CPU has been substantially enhanced thanks to the newly designed CPU engine. The memory consumption for program and internal devices used in function block (FB) and structured text (ST) programs have been improved. This results in one CPU being able to do the job that used to require several CPUs in order to achieve the expected performance level and memory capacity.

Inter-modular synchronization realizes increased processing accuracy

More flexible control over performance

Realizing high processing accuracy could not be any simpler when utilizing the inter-modular synchronization feature, which enables precise data synchronization between controller CPUs and various interface modules via the high-speed system bus (backplane). In addition, network level synchronization (both CC-Link IE Field and SSCNET I/II/H) is now possible, realizing deterministic performance by ensuring synchronization between nodes without being influenced by varying network transmission delays.

Built-in database eliminates the need for a PC-based database server

Recipe data and production results data, previously managed using a database server, can now be managed via the database in the programmable controller. Use of dedicated commands for the built-in database makes it easy to search, add and update data on the fly. Furthermore, the import/export correlation with spreadsheet software is made easier.

Realize high-speed system performance

Approx. 8x faster than QCPU*3

Realize high-speed control performance

Inherits MELSEC-Q Series functions

Large-capacity memory ideal for large-scale control

Data management realized with built-in database

- Easy to switch between recipes
- Realize product batch control
- Efficiently switch between systems

LD instruction speed

PC MIX*4

Fixed-cycle interrupt program

ST instruction (IF text, bit condition)

Program capacity

0.98 ns

419

50 μs

8 ns

1200K steps

*3: Based on a typical application example, the system benchmark test measures the CPU scan time, taking into consideration the network refresh time and monitoring processing time with external devices as compared to Universal model QCPU (QnUDEHCPU).

*4: Average number of instructions such as for basic instructions and data processing executed in 1μs (the larger the value, the faster the processing speed).

Mitsubishi Electric PAC MELSEC iQ-R “Productivity” Movie
Engineering

Reducing development costs through intuitive engineering

The engineering software is sometimes considered a fundamental part of the control system in addition to the hardware components. The core of the system, it includes various steps of the product life cycle, from the design stage all the way to commissioning and maintenance of the control system. Today, intuitive, easy-to-use software suites are expected as a standard for modern manufacturing needs. GX Works3 is the latest generation of programming and maintenance software offered by Mitsubishi Electric specifically designed for the MELSEC iQ-R Series control system. It includes many new features and technologies to ensure a trouble-free engineering environment solution.

Intuitive engineering software covering the product development cycle

<table>
<thead>
<tr>
<th>Graphic-based configuration realizing easier programming</th>
<th>Integrated motion-control system configuration</th>
<th>Conforms to IEC 61131-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Various intuitive features such as graphic-based system configuration and an extensive module library (module label/FB) provided as standard.</td>
<td>From setting simple motion module parameters and positioning data setup to servo amplifier configuration, everything is packaged into an easy-to-use engineering environment.</td>
<td>GX Works3 realizes structured programming such as ladder and ST, making project standardization across multiple users even easier.</td>
</tr>
</tbody>
</table>

Simple point and click programming architecture

**System design**

Straightforward graphic based system configuration design
- Simply drag and drop from the module list to easily create system configuration
- Directly setup parameters for each module
- Automatically reflect changes in the layout to the module parameters

**Programming**

MELSOFT library enables efficient programming through “Module Label/FB”
- Assign convenient label names to internal devices, rather than manually entering a device name every time.
- Simply drag & drop module FBs from the MELSOFT Library directly into the ladder program, making programming even easier.

**Debug/maintenance**

Extensive version control features
- Flexibly register program change (historical) save points
- Easily visualize and confirm program changes

Simple motion setting tool

Easily configure the simple motion module with this convenient integrated tool.

Tab view multiple editors

Conveniently work on multiple editors without having to switch between software screens.

Module configuration

Easily parameterize each module directly from the configuration editor.

Module list

Simply drag & drop modules directly into the module configuration.
Module label / FB

Automatically generate module function blocks simply by selecting one and placing it directly into the ladder editor.

Reduce engineering time by 60%*1

Global realization by multi-language support

To adhere to today’s global production needs, GX Works3 supports multi-language features at various levels, from the multiple language software menu system to device comment language switching features.

*1 Based on new project test benchmarks between GX Works2 and GX Works3.
Reduce maintenance costs and downtime utilizing easier maintenance features

A manufacturing plant is seldom stopped or taken offline and continuously produces the desired product or component. However, the control system occasionally requires maintenance; for example, at the time of a faulty product or system upgrade for manufacturing a new or updated component. At that time, thanks to the extensive maintenance functions embedded in the hardware and software, the user can trust the control system to handle transition into/out of the maintenance period for both preventive and post maintenance.

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**Preventive maintenance**

**CPU module**

**Visualize manufacturing data in real-time**

- Monitor live manufacturing process data across the plant
- Very easy setup using the dedicated GX LogViewer monitoring tool

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** MES interface module**

**Direct access to enterprise level**

- Registers device values directly into database
- Visible shop floor data enables actions before event occurs

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**Output module**

**Prevent system downtime with relay monitoring**

- Monitors relay switching amount
- Check relay condition from GOT (HMI)
- Plan module maintenance prior to malfunction of relay

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**Corrective maintenance**

**CPU module**

**Memory dump enables confirmation of operation problems**

- Saves block of device data when error occurs
- Root cause analysis by confirming data on device monitor screen
The MELSEC iQ-R Series is a unique control system equipped with innumerable functions. It works to ensure that the “down-time” of the system is kept to a minimum, which improves productivity and helps to maintain the efficiency of the overall plant.

**CPU module**

**Efficient diagnostics with extensive event logging**
- Logging of program change events, errors and when the power is turned off
- Event logging displayed in list form
- Quickly detect problems due to operating mistakes by multiple users

**GX Works3**

**Multi-language software improves global support**
- Comment/label names can be registered in multiple languages
- Easy to switch between languages
- No need for multiple programs to satisfy regional requirements

**Quickly find network errors**
- Visualize error location from network system image
- Easy network error corrective measures

**Simple troubleshooting, even for novice users**
- Start diagnostics screen on GX Works3 just by connecting via USB
- Display detailed error information and corrective procedures

**Corrective maintenance**

Mitsubishi Electric PAC MELSEC iQ-R

"Maintenance" Movie
Quality

Reliable and trusted

MELSEC product quality

The MELSEC iQ-R Series is based on two fundamental aspects of quality.
“Quality of product”
“Quality for application”

These two characteristics are part of the main principle behind the MELSEC iQ-R Series. This new control system includes various features designed-in to provide a solution that not only improves the overall manufacturing productivity, but also maintains a high level of industrial quality that is ideal for the harsh and rugged environments that it is subjected to on a daily basis.

Robust design ideal for harsh industrial environments

Synonymous with the Mitsubishi Electric name, the MELSEC iQ-R Series is designed with high quality and reliability, which is a prerequisite for industrial applications. In addition, the overall aesthetics and usability enable easier maintenance that customers routinely expect.

Classification according to IEC 60721-3-3 Class 3C2

For protection against aggressive atmosphere and gases, products with a conformal coating (IEC 60721-3-3 Class 3C2) are available on request*1

*1: Please contact your local Mitsubishi Electric office or representative for further details.

1. Conforms to stringent quality evaluations and tests that are based on robust industrial environments including EMC, LSI, temperature, vibration and HALT tests.
2. High manufacturing quality control through QR code based quality management system.
3. The front face has a wide and open design with an easy-to-use front cover.
4. The base rack design includes a dedicated earth rail to prevent noise interference in low power supply conditions and a robust structure that enables easy installation without extensive damage to bus connectors.
Conforms to main international quality standards

The MELSEC iQ-R Series conforms to most of the main international standards that realizes applications requiring multiple global locations.

Improve and maintain actual manufacturing quality

Maintains product quality during manufacturing

With inter-module synchronization, it is now possible to precisely synchronize interrupt programs with the network communications cycle (link scan). Any variations in data transmission response time (network transmission delay time) between the controller and other devices on the network are eliminated, realizing high integrity between manufacturing processes that are dependent on each other, ensuring high performance and processing.

Realizes traceability through data logging

Simple settings enable the collection of production data needed for traceability. Furthermore, collected data can be analyzed easily using a dedicated viewer. Analyzing various data on production processes provides an indicator for quality improvements and manufacturing cost reductions, thereby supporting optimization of the production system.
Connectivity

Seamless network reduces system costs

The MELSEC iQ-R Series is part of a family of products all interconnected across various levels of automation. Based on the seamless message protocol (SLMP*1), data flows transparently between the sensor level and the management level across multiple industry-standard automation networks. CC-Link IE, Asia’s No. 1 industrial network, realizes fast gigabit data transmission speeds, further optimizing the manufacturing cycle. In addition, the SSCNET III/H high-speed motion control network further enhance the factory-wide connectivity solution. In parallel to this, production data is visible from the shop floor directly into MES database servers via the MES interface.

Seamless connectivity within all levels of manufacturing

Utilizing SLMP*1, it is possible to access production management systems, programmable controllers and other devices seamlessly using the same method without having to worry about network hierarchies or boundaries. Monitoring machines and collecting data can be performed easily from virtually anywhere on the network.


High-speed and large bandwidth ideal for large-scale control systems

The Ethernet-based open network CC-Link IE is an industry-leading 1 Gbps high-speed, large-capacity network. The division of 1 Gbps broadband into uses for distributed control and field data communications secures the reliability of control communications and realizes real-time data collection, which can be difficult with standard Ethernet.
Optimal network proposals for each level

**CC-Link IE Control**
CC-Link IE Control is a high-reliability distributed control network designed to handle very large data communications (128K word) over a high-speed (1 Gbps) dual-loop optical cable topology.

**CC-Link IE Field**
CC-Link IE Field is a versatile gigabit Ethernet-based network integrating controller, I/O control, safety control, and motion control in a flexible wiring topology supporting star, ring, and line configurations.

**CC-Link / CC-Link Safety / CC-Link LT**
CC-Link is a high-speed and highly reliable deterministic I/O control network that realizes reduced wiring while offering multi-vendor compatible products. This open field network is a global standard, originating from Japan and Asia. In addition, CC-Link Safety, is a dedicated fail-safe network that is used as a safety risk management solution. CC-Link/LT is a sensor-level network that is ideal for compact and complicated wiring installations.

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**AnyWire**
AnyWire is a sensor level distributed control network that is designed to reduce installation costs by utilizing general-purpose wiring and robot cables.

**SSCNET III/H**
SSCNET III/H is a dedicated high-speed, high-performance, highly reliable servo system control network that offers flexible long-distance wiring capabilities based on optical-fiber cable topology.

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Simple connection to external devices using MELSOFT library

Utilizing the GX Works3 Predefined Protocol support function, simply select the protocol to be used and the data to transmit/receive to communicate easily with external devices such as vision sensors and temperature controllers. Engineering time can be substantially reduced as it is no longer necessary to create separate communications programs.

**CC-Link IE Control (twisted-pair cable)**
Utilizing a system architecture that has no constraints and enables one to choose freely such as star/line/ring topologies, adding and removing equipment is easier. Moreover, compatibility with standard twisted-pair cabling means that wiring costs can be reduced.

**Connect to two different types of networks with the same module**
Ethernet and CC-Link IE network communications can be realized with the same network module. Since multiple network types can use one module, equipment costs can be further reduced.
Security

Robust security that can be relied on

As technology becomes more complex and the distribution of manufacturing systems more global, the protection of intellectual property is even more significant. When shipping a finished product overseas, the last thing an OEM needs to consider is unauthorized copying or changing of the original project data. In addition to this, unauthorized access to the control system can have very serious implications to the control system and the end user, which can compromise the overall safety of the plant.

The MELSEC iQ-R Series has a number of embedded features that help to maintain these requirements, such as hardware and software keys to protect intellectual property, and multi-level user access password hierarchy to protect the project at the design stage.

Powerful security features protecting intellectual property

Security key authentication protecting project data

The security key authentication prevents programs from being opened on personal computers where the security key has not been registered. Furthermore, because programs cannot be executed by CPU modules where the security key has not been registered, the integrity of customer technologies and other intellectual property is not compromised. The security key can also be registered on an extended SRAM cassette. Therefore, when replacing the CPU module, there is no need to re-register the security key, making replacement very simple.

Prevent unauthorized access across the network

The IP filter can be used to register the IP addresses of devices permitted to access the CPU module. As a result, access from non-registered devices can be blocked, thereby lowering the risk of program hacking and unauthorized access by a third party. Another feature is a remote password function for password-based security. Passwords of up to 32 characters can be set to prevent unauthorized access to the CPU module via networks such as Ethernet.
Compatibility

Extensive compatibility with existing products

Whenever introducing a new system or technology into an existing manufacturing plant or control system, utilization of existing assets as much as feasibly possible is a mandatory requirement with today’s manufacturing needs. The MELSEC iQ-R Series addresses these subtle but substantial needs with various system hardware support and engineering project compatibility to achieve an easy path to higher technology and improved performance capabilities.

Utilize existing MELSEC-Q Series assets

Current programs can be fully utilized

A simply conversion process*¹ is all it takes to enable the use of MELSEC-Q Series programs with the MELSEC iQ-R Series. Customers can effectively use the program assets they have accumulated, thereby reducing the overall engineering time.

*¹: For detailed information about converting to GX Works3 programs, please refer to the “GX Works3 Operating Manual”.

Possible to divert external device wiring

The MELSEC iQ-R Series I/O module, analog module, and counter module pin layouts and connectors are the same as those of the MELSEC-Q Series. Accordingly, existing external device wiring (connectors, terminal blocks) can be diverted without changes and wiring costs can be reduced.

Variety of compatible modules

By utilizing the dedicated extension base, most MELSEC-Q Series modules*² can be re-used. This makes it possible to introduce the high-performance MELSEC iQ-R Series while controlling the cost of supplementary equipment.

*²: For further details, please refer to the “MELSEC iQ-R Module Configuration Manual”.

Mitsubishi Electric PAC MELSEC iQ-R “Compatibility” Movie

MELSEC Q Series

MELSEC iQ-R Series
iQ Platform for maximum return on investment

Minimize TCO, Seamless integration, Maximize productivity, Transparent communications: these are common items that highlight the benefits of the iQ Platform. Enhanced further with the arrival of the new iQ-R Series Programmable Automation Controller (PAC), reducing costs and improving productivity can be realized even easier.

The iQ Platform minimizes TCO at all phases of the automation life cycle by improving development times, enhancing productivity, reducing maintenance costs, and making information more easily accessible. Seamless integration is the core part of the iQ Platform, having a highly intelligent controller platform that caters to different aspects of control all on the same base rack, and maximizing productivity by taking advantage of the high-speed iQ-R system bus, which further reduces operation cycle times. Transparent communications are achieved by supporting the industry-leading gigabit Ethernet-based open network, CC-Link IE. Seamless data flow is realized no matter what point on the network, ensuring the free flow of production data across the manufacturing site.

Taking these aspects and applying the new iQ-R Series controller into the mix, the iQ Platform raises processing capabilities to the next level for future intelligent manufacturing plants.
PAC & HMI

1. The new high-speed MELSEC iQ-R Series system bus is 40-times faster realizing improved system performance
2. Program standardization through function blocks and module labels
3. Powerful and robust security features

Network

1. CC-Link IE, 1Gbps high-speed and large bandwidth communications network (40-times faster link refresh)
2. Seamless connectivity within all levels of manufacturing with SLMP

Engineering

1. Automatic generation of network configuration diagram
2. Share parameters across multiple engineering software via MELSOFT Navigator
3. Changes to system labels shared between PAC and HMI
### Power supply
- R61P: AC input
- R62P: AC input (inc. 24 V DC output)
- R64P: AC input (large capacity)
- R63P: DC input

### Base
- **Main base**
  - R35B: 5-slot
  - R38B: 8-slot
  - R312B: 12-slot
- **Extension base**
  - R65B: 5-slot
  - R68B: 8-slot
  - R612B: 12-slot
  - RQ extension base (MELSEC-Q Series)
    - RQ65B: 5-slot
    - RQ68B: 8-slot
    - RQ612B: 12-slot

### Extension cable
- RC06B: 0.6 m
- RC12B: 1.2 m
- RC30B: 3 m
- RC50B: 5 m

### CPU
- **Programmable controller CPU**
  - R04CPU: 40K steps
  - R08CPU: 80K steps
  - R16CPU: 160K steps
  - R32CPU: 320K steps
  - R120CPU: 1200K steps
- **Motion CPU**
  - R16MTCPU: 16-axis
  - R32MTCPU: 32-axis
- **Process CPU**
  - R08PCPU: 80K steps
  - R16PCPU: 160K steps
  - R32PCPU: 320K steps
  - R120PCPU: 1200K steps
- **C Controller**
  - R12CCPU-V: Memory capacity 256 MB

### I/O
- **AC input**
  - RX10: 16-point
- **DC input**
  - RX40C7: 16-point
  - RX41C4: 32-point
  - RX42C4: 64-point
- **Relay output**
  - RY10R2: 16-point
- **Transistor (sink) output**
  - RY40NT5P: 16-point
  - RY41NT2P: 32-point
  - RY42NT2P: 64-point
- **Transistor (source) output**
  - RY40PT5P: 16-point
  - RY41PT1P: 32-point
  - RY42PT1P: 64-point
- **I/O combined module**
  - DC input, transistor (sink) output
    - RH42C4NT2P: 32-point/32-point
### Analog

- **Analog input**
  - R60AD4 ......................... 4-channel (voltage or current)
  - R60ADV8 ..................... 8-channel (voltage)
  - R60ADI8 ..................... 8-channel (current)

- **Analog input (channel isolated)**
  - R60AD8-G .................... 8-channel (voltage or current)
  - R60AD16-G .................. 16-channel (voltage or current)

- **Temperature input**
  - R60TD8-G .................. 8-channel (thermocouple)
  - R60RD8-G .................. 8-channel (RTD)

- **Analog output**
  - R60DA4 ......................... 4-channel (voltage or current)
  - R60DAV8 ..................... 8-channel (voltage)
  - R60DAI8 ..................... 8-channel (current)

- **Analog output (channel isolated)**
  - R60DA8-G .................... 8-channel (voltage or current)
  - R60DA16-G .................. 16-channel (voltage or current)

### Motion, Positioning, High-speed counter

- **Simple motion**
  - RD77MS2 ..................... 2-axis
  - RD77MS4 ..................... 4-axis
  - RD77MS8 ..................... 8-axis
  - RD77MS16 ................... 16-axis

- **Positioning**
  - Transistor output
    - RD75P2 ..................... 2-axis
    - RD75P4 ..................... 4-axis

- **Differential driver output**
  - RD75D2 ..................... 2-axis
  - RD75D4 ..................... 4-axis

- **High-speed counter**
  - DC input/Transistor (sink) output
    - RD62P2 ..................... 2-channel
  - DC input/Transistor (source) output
    - RD62P2E ................... 2-channel
  - Differential input/Transistor (sink) output
    - RD62D2 ..................... 2-channel

### Network

- **Ethernet**
  - RJ71EN71 .................. 1 G/100 M/10 Mbps
    - Multiple network type
      - (Ethernet/CC-Link IE)

- **CC-Link IE Control network**
  - RJ71GP21-SX ........... Control/Normal station optical cable

- **CC-Link IE Field network**
  - RJ71GF11-T2 .......... Master/Local station

- **CC-Link**
  - RJ61BT11 .............. Master/Local station
    - CC-Link Ver.2

- **Serial communication**
  - RJ71C24 .......... RS-232, RS-422/485
  - RJ71C24-R2 ............. RS-232 x2ch
  - RJ71C24-R4 ............. RS-422/485 x2ch
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Mitsubishi Electric Corporation Nagoya Works is a factory certified for ISO14001 (standards for environmental management systems) and ISO9001 (standards for quality assurance management systems).