MITSUBISHI ELECTRIC

Integrated Modular Controller
Melsec iQ-R
PRODUCT FLYER

MELSEC iQ-R series

The Melsec iQ-R Series offers a wide range of programmable automation controllers capable of handling diversified automation control needs. The new high-speed system bus ensures high performance and intelligent processing power, this enables a single CPU to perform all of the operations that would require multiple CPUs, offering savings in hardware costs. At the same time, mounting multiple CPUs on an iQ-R Series backplane is supported.

Process CPU
Designed specifically for medium to large scale process control systems, requiring high-speed performance. This CPU has the ability to handle large PID loops using embedded algorithms. It can be paired with a redundant function module for a highly reliable, redundant control system application.

Safety CPU
Compliant with internationally recognised safety standards, the safety CPU enables safety devices to be connected via the CC-Link IE Field network. It is easily programmed using intuitive features of GX Works3 and can be installed into an existing or new control system by direct connection on the backplane of the controller.

Intelligence
The Melsec iQ-R Series "Intelligence" lineup includes a MES interface module which provides highly reliable data connectivity for IT systems. C Controller and C Intelligent function ideal for high-end analytical requirements or simultaneous execution of programs and high-speed data logger modules.

Features

- » GX Works3 user-friendly programming software
- » High performance CPU
- » Scalable platform
- » Synchronised control
- » Secure data storage
- » Reduces maintenance
- » System security
- » Flexible
- » Seamless device connectivity

SPECIFICATIONS

Power Supply	Model	Description
Power supply	R6☐	AC/DC input
Main base unit	R3☐B	5 - 12 slots
Extension base unit	R6☐B	5 - 12 slots
RQ extension base (Q series type)	RQ6☐B	5 - 12 slots
Extension cable	RC☐B	0.6 - 5 m

CPU	Model	Description
Programmable controller CPU	R☐CPU	40 - 1200 K steps
Motion CPU	R☐MTCPU	16 - 32 axis
SD memory card	L1MEM-☐GBSD	2 - 4 GB
Extended SRAM cassette	NZ2MC☐MBS	1 - 8 MB

I/O	Model	Description
AC inputs	RX10	16 points
DC inputs	RX☐C☐	16 - 64 points
Relay	RY10R2	16 points
Transistor (sink) outputs	RY☐NT☐P	16 - 64 points
Transistor (source) outputs	RY☐PT☐P	16 - 64 points
I/O combined module		
DC input, transistor (sink) outputs	RH42C4NT2P	32 points

Power Supply Analog	Model	Description
Analog input	R60AD4	4 channels
	R60ADV8	8 channels (voltage)
	R60ADI8	8 channels (current)
Analog output	R60DA4	4 channels
	R60DAV8	8 channels (voltage)
	R60DAI8	8 channels (current)

Motion, Positioning, High-Speed Counter	Model	Description
Simple motion	RD77MS☐	2 - 16 axis
Positioning		
Transistor output	RD75P☐	2 - 4 axis
Differential driver output	RD75D☐	2 - 4 axis
High-speed counter		
DC input/transistor (sink) output	RD62P2	2 channels
DC input/transistor (source) output	RD62P2E	2 channels
Differential input/transistor (sink) output	RD62D2	2 channels

Network	Model	Description
Ethernet	RJ71EN71	1G/100M/10Mbps 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	RJ61BT1	Master/local station CC-Link ver.2
Serial communication	RJ71C24	RS232, RS422/485
	RJ71C24-R2	RS232 x 2 channels
	RJ71C24-R4	RS422/485 x 2 channels
PROFINET®	RJ71PN92	IO controller
Ethernet/IP™	RJ71EIP91	Scanner
PROFIBUS®-DP	RJ71PB91V	DP master/slave
DeviceNet®	RJ71DN91	Master/slave

Notes:
Refer to the catalogue for more options and accessories.

Catalogue
https://bit.ly/Melsec_iQ-R

e-Learning
https://www.mitsubishielectric.com/fa/assist/e-learning/eng.html

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