



for a greener tomorrow

MELSEC iQ-F SERIES

Product Overview

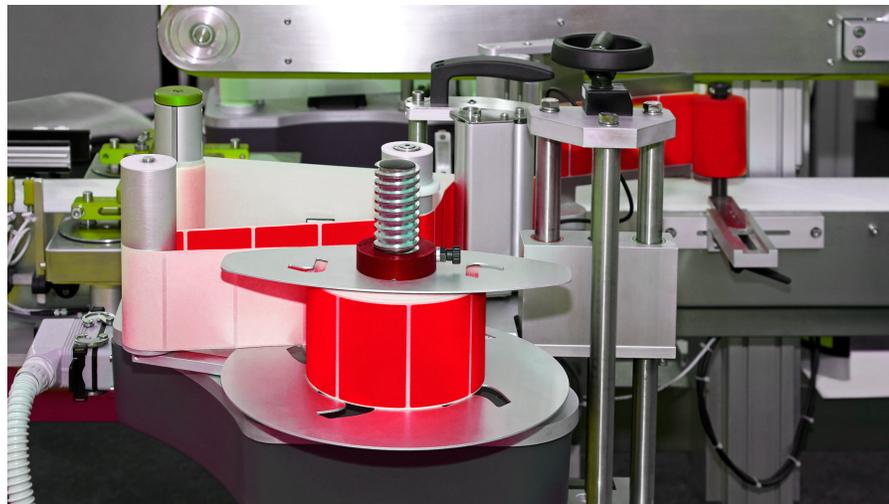


MELSEC iQ-F
series

The iQ-F Series is Mitsubishi Electric's compact control platform. The FX5U model provides a cost effective solution that boasts ease of use, functionality, and high performance in a small panel footprint. Ideal for small to medium machines, the FX5U and FX5UC controllers enable faster decision making with access to real time data and improved machine accuracy and throughput. The FX5U and FX5UC are keys to a more profitable manufacturing environment.

KEY BENEFITS:

- Faster machine response and increased productivity with 34 ns execution speed
- Flexible architecture and expansion options to easily standardize for a variety of applications
- Open connectivity and flexible networking with Ethernet, Modbus and serial communications options
- Enhanced security options to protect intellectual property
- Motion control capability in a compact controller platform, reducing cost and simplifying design



iQ-F Series – Product Overview

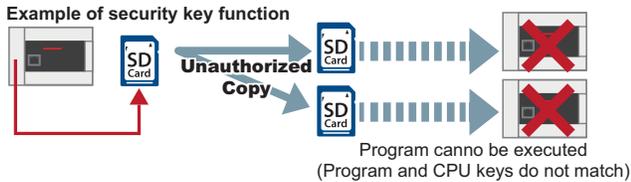
Outstanding Performance

Embedded Ethernet port – Access to Ethernet networks increases connectivity to other devices and provides access to data for making real time decisions.

Built-in SD card slot – The FX5U has the capability to upload and download programs, store data, and authenticate security from an SD card.

Large memory capacity – Increased memory allows for more complex programs, and increased capacity for comments, labels and data logging.

Embedded analog – The FX5U provides low cost, simple PID control to upload and download programs, store data, and authenticate security from an SD card.



Intuitive Programming Environment

Graphical interface – Easily configure a system and set parameters in GX Works3

Multiple programming languages – IEC 61131 programming languages are supported, and can even be used in the same project simultaneously. This flexibility allows the user to program in the most efficient manner for their application.

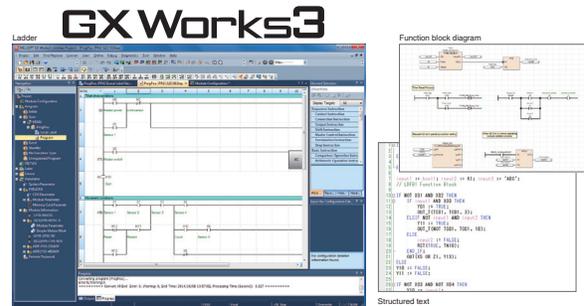
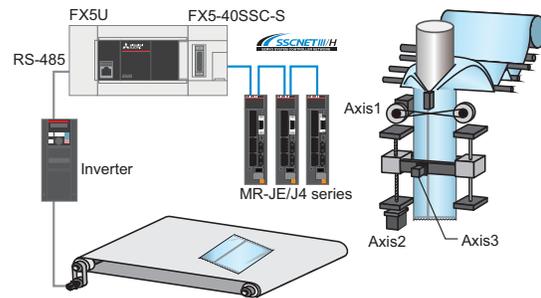
Motion setup tool – GX Works3 eliminates the need for additional software when using the Simple Motion module.

Superior Drive Control

Inverter control – Control up to 16 Mitsubishi inverters over RS-485 using dedicated inverter communication instructions. It is simple to read/write parameters, monitor, and control networked Mitsubishi inverters with the FX5U.

Positioning – The FX5U comes with built-in capacity for 200kHz high speed inputs and outputs. This provides the capability to control up to 4 axes of positioning with stepper or servo motors. The FX5U is a cost effective solution for interrupt operation, multistage speed operation, simple linear interpolation, and simultaneous start of 2 axes.

Simple Motion module – The Simple Motion module (FX5-40SSC-S) provides motion functionality for up to 4 axes of motion over SSCNET III/H. This compact controller has the capability for applications that require advanced synchronous control, cam control, and speed-torque control.



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

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