

# MELSEC iQ-F Series FX5S CPU module

A simple, easy to use, compact module

## Easily deploy small-scale IoT

### Remotely monitor the on-site status

#### ➤ Remote monitoring and data utilization

- Monitor equipment operation status remotely.
- Collect data automatically via file transfer function.

### Hassle-free debugging

#### ➤ Efficient debugging reduces work time

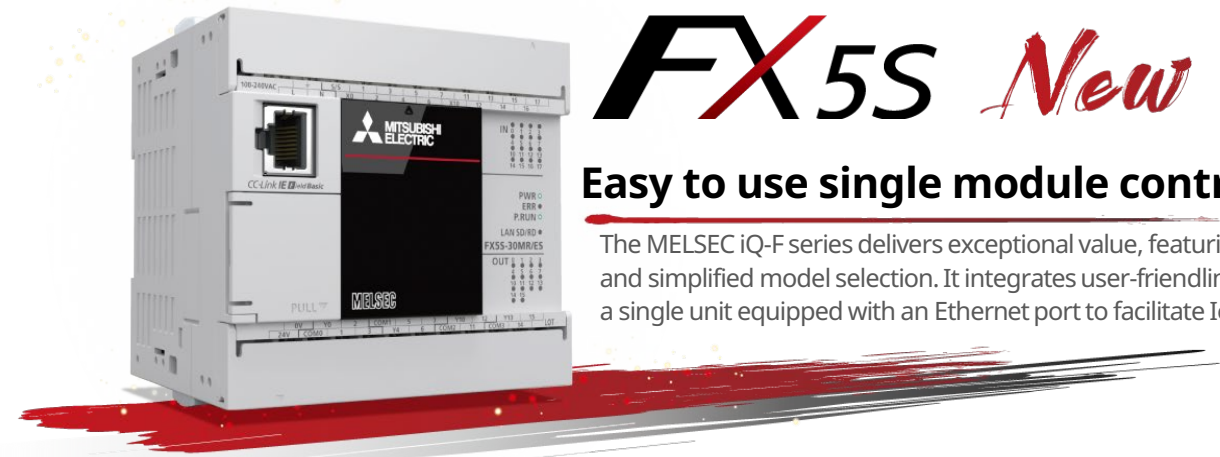
- A wide range of data can be collected easily.
- When an error occurs, the abnormal operation and affected program area can be quickly identified.

### Enhanced compatibility with servos

#### ➤ Easy connection using CC-Link IE Field Network Basic

- Reduce programming effort by using standard Function Blocks.
- Simple built-in positioning functions enable low-cost servo control.

## Product lineup



# FX5S *New*

### Easy to use single module control solution

The MELSEC iQ-F series delivers exceptional value, featuring high basic performance and simplified model selection. It integrates user-friendliness and convenience into a single unit equipped with an Ethernet port to facilitate IoT connectivity.

### CPU module lineup



AC power  
supply type

FX5S-30MR/ES  
FX5S-30MT/ES  
FX5S-30MT/ESS

DC power  
supply type

FX5S-30MR/DS  
FX5S-30MT/DS  
FX5S-30MT/DSS

Coming  
soon



AC power  
supply type

FX5S-40MR/ES  
FX5S-40MT/ES  
FX5S-40MT/ESS

DC power  
supply type

FX5S-40MR/DS  
FX5S-40MT/DS  
FX5S-40MT/DSS

Coming  
soon



AC power  
supply type

FX5S-60MR/ES  
FX5S-60MT/ES  
FX5S-60MT/ESS

DC power  
supply type

FX5S-60MR/DS  
FX5S-60MT/DS  
FX5S-60MT/DSS

Coming  
soon

## Features

### Remotely monitor equipment status and operation

#### ➤ Web server function

- No programming required. Quickly diagnose issues by connecting to the equipment's PLC.
- Easy access from a smartphone or a tablet.

### Collect logs in a batch from a remote location

#### ➤ FTP server function/FTP client function

- FTP client function allows a remote user to easily retrieve data from the PLC on-demand.
- FTP server function enables logging files and data to be periodically sent by the PLC to a PC/FTP client.

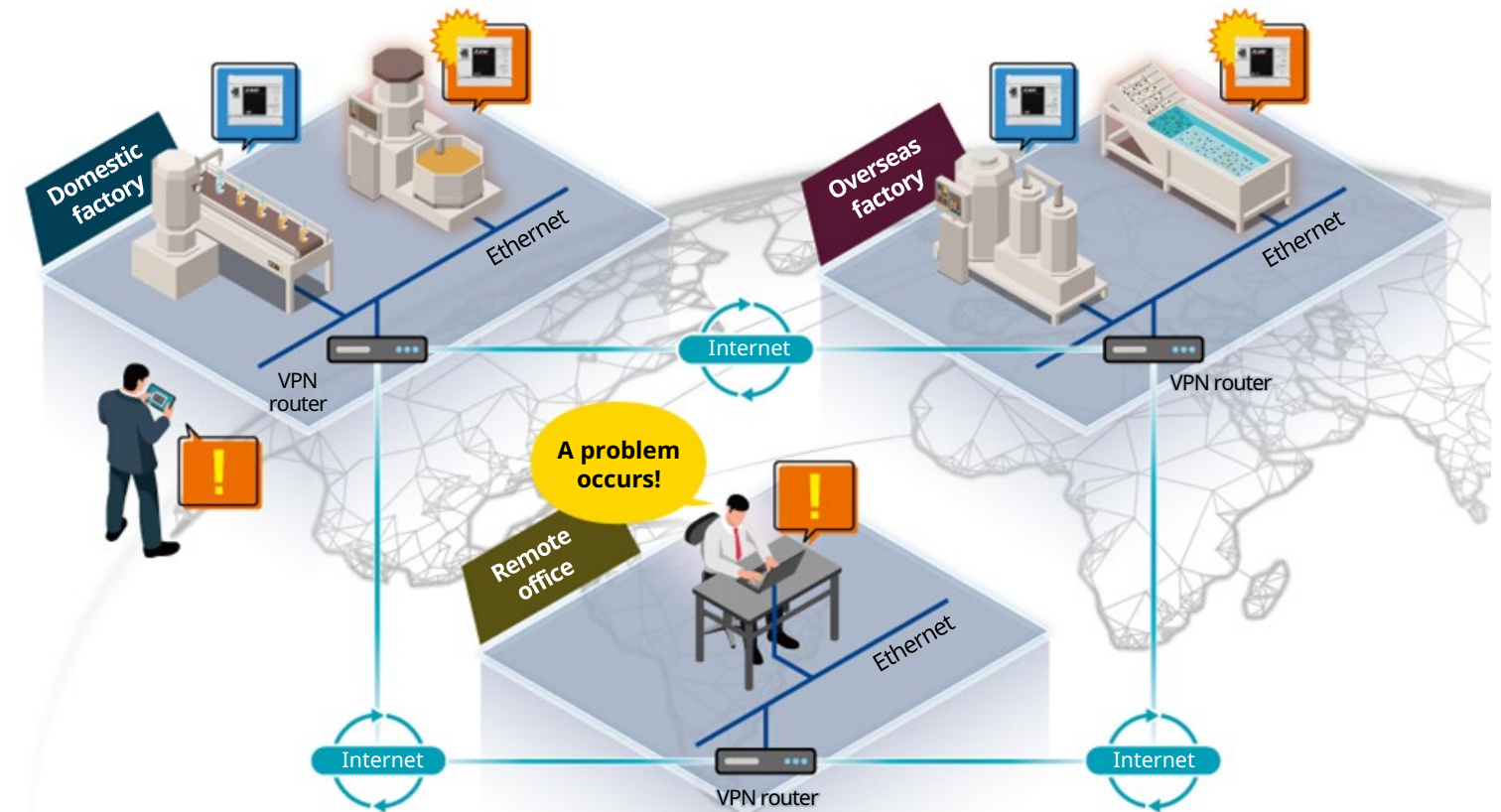
### Collect data from existing equipment without having to make extensive configuration changes

#### ➤ Simple CPU communication functions

- Communication can be implemented by simple parameter settings.
- Programless connection to Mitsubishi Electric and various other brand#1 PLCs

#1 Check manual for applicable models

## Conceptual diagram



## Features

### Reduce time for error analysis

#### ➤ Camera recording package + Real-time monitor function

- When linked to lineside cameras, their images can be used to support the analysis of the conditions at the time the error occurred.
- Equipment operation can be visualized by using collected data to create graphical waveforms of operations.

### Quick identification of affected program parts.

#### ➤ Data flow analysis function

- Quickly find the program location that is causing the problem.
- Graphical representation of the program operation helps the "cause and effect" relationship to be quickly identified.

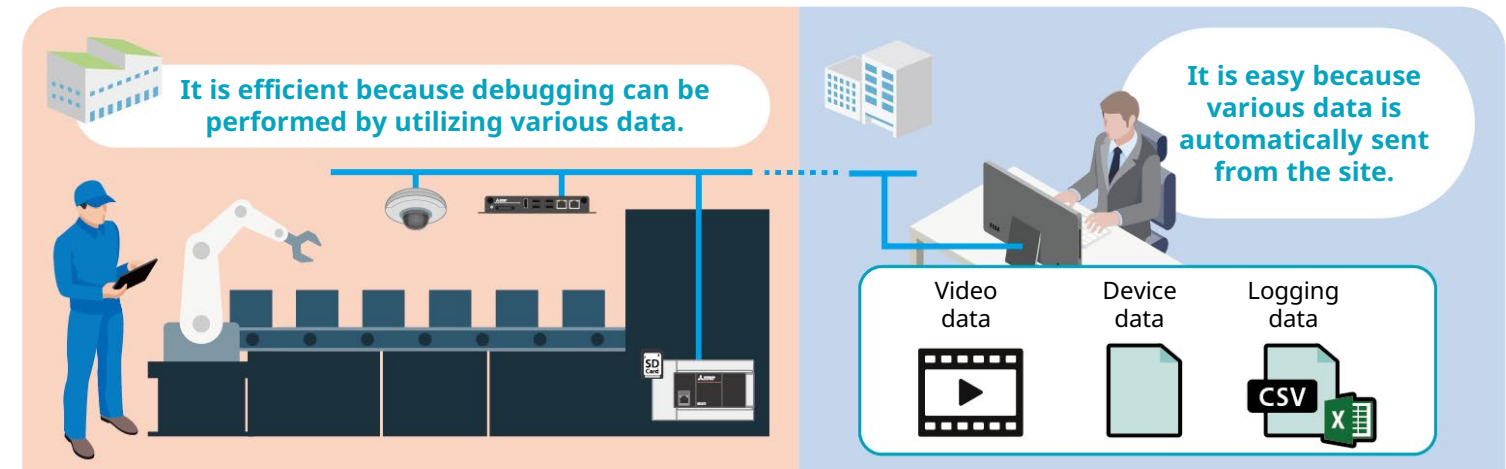
### Collect only essential equipment logs to save time.

#### ➤ Data logging function

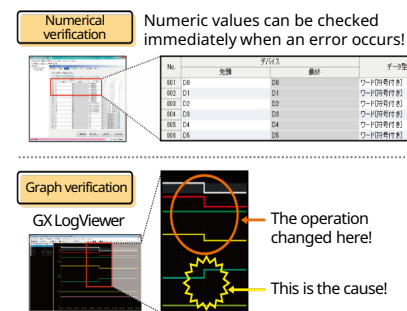
- Data can be collected without needing to write a program. Manage CSV output data with Microsoft® Excel®.
- By reviewing the collected data just before and just after the problem occurred, the time taken to identify the root cause can be reduced.

## Conceptual diagram

### ■ Camera recording package

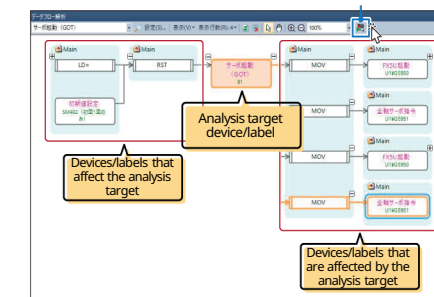


### ■ Real-time monitor function



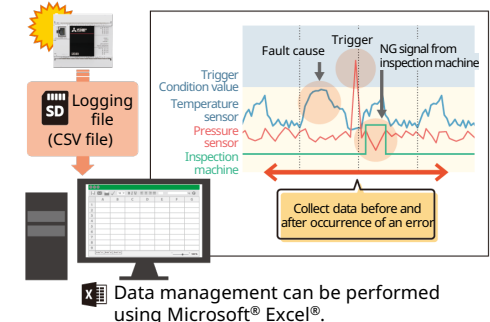
Changes can be identified at a glance, and investigations can be conducted quickly.

### ■ Data flow analysis function



The program area containing the device or label under analysis can be graphically represented, aiding in cause analysis at the moment the error occurred.

### ■ Data logging function



Data logging can be achieved simply by setting parameters, without any need for programming.

## Features

### For simple, low-cost configurations

#### ➤ Utilization of CC-Link IE Field Network Basic

- Up to eight devices can be connected to one CPU unit.
- Fast and easy connection by using Ethernet cables.

### Reduce programming effort right from the start

#### ➤ PLCopen® -compatible FBs support program creation

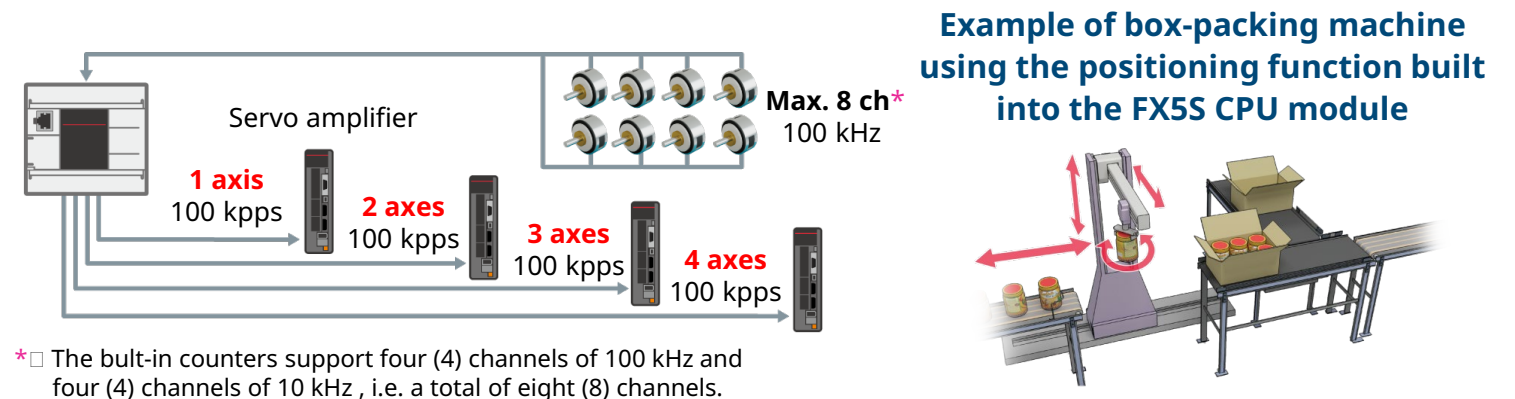
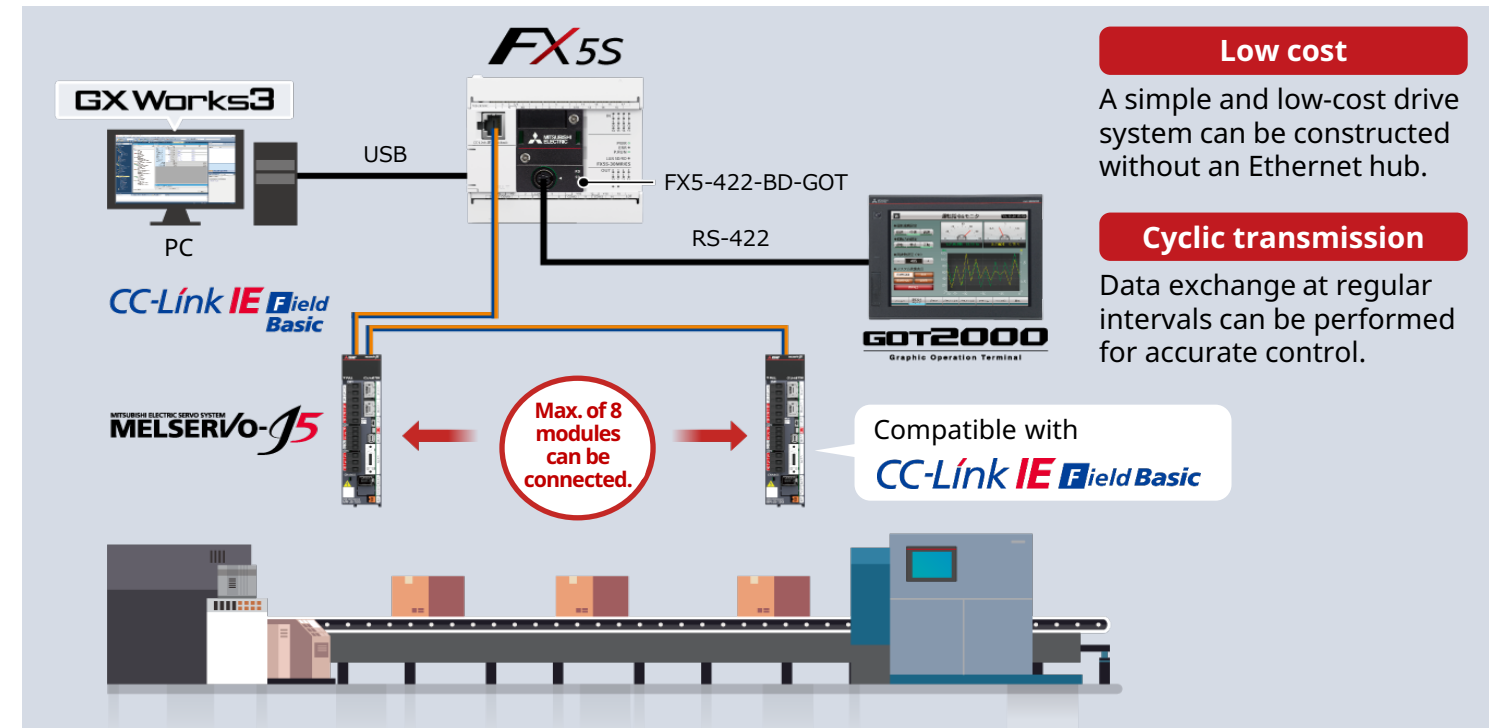
- Preprepared FBs can be easily selected and used.
- Unified I/O variables make it easy to reuse FBs in other programs.

### Positioning control made easy

#### ➤ Built-in positioning functions

- The built-in positioning function can control pulse outputs for up to 4-axis without any additional expansion to the PLC.
- Interpolation functions can be utilized with interruptive stop operation and variable speed operation.

## Conceptual diagram



\*□ The built-in counters support four (4) channels of 100 kHz and four (4) channels of 10 kHz, i.e. a total of eight (8) channels.