MELSEC iQ-F Series
Intelligent Function Module
FX5-8AD, FX5-4LC, FX5-20PG-P,
FX5-CCL-MS, FX5-ASL-M

Powerful Intelligent Function Module Lineup!
Introducing new CPU module functions!

MELSEC iQ-F series
for various scenes and applications
Providing multiple support for various applications
- Voltage, current, thermocouple, and resistance temperature detector can be combined
- Auto refresh function is supported
- High-resolution (312.5 µV for voltage input, 625 nA for current input, 0.1°C for thermocouple and resistance temperature detector)
- Parameters can be set with GX Works3, greatly reducing programming man-hours
- Easy wiring and improved vibration resistance realized with spring clamp terminal
- Smaller size compared to conventional model (conventional model: W75 mm → FX5-8AD: W50 mm)

No need for multiple modules
- Providing support for various applications

Reduce maintenance costs
- Easily detect disconnection
- Thermocouple and resistance temperature detector disconnection can be easily detected, so downtime and maintenance cost can be reduced.

Save log when problem occurs
- 10000 points of data per channel can be logged and stored to buffer memory. If the log is saved, it can be useful in investigating the cause of the problem.

Voltage, current, thermocouple, and resistance temperature detector inputs can be used for multiple applications with a single module!

Voltage, current, thermocouple (K, J, T, B, R, S), and resistance temperature detector (Pt100, Ni100) inputs are supported.

Thermocouple and resistance temperature detector disconnection can be easily detected, so downtime and maintenance cost can be reduced.

Analog input
- Total 8 channels
- Possible to set input type per channel:
  - Voltage
  - Current
  - Thermocouple
  - Resistance temperature detector
- Wiring is simplified with spring clamp terminal block!

System configuration example

PC
GOT
MODBUS®
FXSU
FX5-8AD
Inverter
Inverter
Ethernet

1: For voltage analog input range 0 to 10 V, current analog input range 0 to 20 mA, thermocouple K, J, T, and resistance temperature detector (Celsius). Refer to the specifications page for other cases.
2: Compared to FX2N-8AD
3: Refer to each CPU module manual for details on the system configuration.
   → MELSEC iQ-F FX5U User’s Manual (Hardware)
   → MELSEC iQ-F FX5UC User’s Manual (Hardware)
Various temperature sensors are supported
- Auto refresh function is supported
- PID control is possible
- Using GX Works3 temperature trace, monitoring the temperature waveform in real-time is possible
- Parameters can be set with GX Works3, greatly reducing programming man-hours
- Easy wiring and improved vibration resistance realized with spring clamp terminal
- Smaller size compared to conventional model*1 (conventional model*1: W90 mm → FX5-4LC: W60 mm)

Supports a variety of applications
- Various temperature sensors can be used
- Supports thermocouple, resistance temperature detector, and micro voltage inputs. Possible to support a variety of applications.

Possible to set input type per channel!
- Temperature sensor input
  - Total 4 channels (isolation between channels)
- Thermocouple
- Micro voltage
- Resistance temperature detector
- Wiring is simplified with spring clamp terminal block!

Temperature control is even easier
- PID control supported
- Overshooting where the output value exceeds the target value, and hunting phenomenon where vibration occurs around the target value can be suppressed.

Easy to understand temperature change with waveform
- Temperature change can be checked on a waveform. While checking the temperature waveform displayed in real-time, parameters can be adjusted.

System configuration example

*1: Compared to FX3U-4LC
*2: Refer to each CPU module manual for details on the system configuration.

→ MELSEC iQ-F FX3U User’s Manual (Hardware)
→ MELSEC iQ-F FX5UC User’s Manual (Hardware)
High-speed start increases freedom of 2-axis positioning!

- High-speed start realized
- Quick start function supported
- Start time adjustment function supported
- Continuous positioning control and continuous path control supported
- Advanced positioning control support (block start, etc.)
- Seamless interchangeability with MELSEC iQ-R Series
- Auto refresh function is supported
- Parameters can be set with GX Works3, greatly reducing programming man-hours

Improved efficiency with shorter starting time

**High-speed start realized**

The high-speed normal positioning starting process speed can shorten the starting time to 0.5 ms.

- **Comparison of starting times for 1-axis linear control**
  - FX2N-20GM: 20 ms
  - FX5-20PG-P: 0.5 ms
  - Shorten the time to approx. 1/40!

- **Comparison of starting times**
  - Normal start (For 1-axis linear control): 0.5 ms
  - Quick start: 20 µs
  - Shorten the time to approx. 1/25!

Pulse output is turned ON after set time

**Start time adjustment function**

The pulse output can be started when the pre-specified time has elapsed after the start trigger is input. (Using the quick start function)

- **Comparison of starting times**
  - Normal control program: ON
  - Interrupt program: ON
  - Interrupt factor FX5-20PG-P: ON

Further reducing the starting time

**Quick start function supported**

By pre-analyzing the positioning data to be executed immediately after starting, positioning can be started even faster than normal positioning start.

**Interrupt function**

An interrupt request can be generated for the CPU module program. The target operation can be performed at a high-speed with priority according to the status of the positioning module.

---

**POINT**

- For 1-axis linear control, 1-axis speed control. Refer to the manual for other control methods.
- When starting with the external command signal. Starting with the positioning signal takes 30 µs.
Compatible with MELSEC iQ-R Series (RD75P2), program assets can be reused

Buffer memories other than the FX5-20PG-P native buffer memory are interchangeable with the RD75P2. The program can be replaced easily, so program assets can be used effectively.

Ample positioning control functions

Interpolation control function
Interpolation control using multiple axes is possible. (2-axis linear interpolation control, 2-axis fixed-feed control, 2-axis circular interpolation control, 2-axis speed control)

Acceleration/deceleration processing function
The acceleration/deceleration curve can be adjusted to fit the machine. Trapezoidal or S-curve acceleration/deceleration can be selected, and four settings can be made for acceleration time and deceleration time each. In the case of S-curve acceleration/deceleration, S-curve ratio can also be set.

OPR retry function
When the power is turned ON, home position return can be started regardless of the machine stop position.

Other control

- Linear control
- Fixed-feed control
- Speed control
- Speed-position switching control
- Position-speed switching control
- JOG operation
- Inching operation
- Manual pulse generator operation

System configuration example

Must be prepared by user

The external device connection connector and connection cable, etc., are not enclosed with the product. The user must prepare these accessories.

Options

- External device connection connector (40-pin)

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>A6CON1</td>
<td>Soldered type (straight type)</td>
</tr>
<tr>
<td>A6CON2</td>
<td>Crimped type (straight type)</td>
</tr>
<tr>
<td>A6CON4</td>
<td>Soldered type (both straight/inclined protrusion type)</td>
</tr>
</tbody>
</table>
Build a CC-Link V2 network system affordably!

**POINT**

- Build a system including CC-Link V2 compatible slave station
- Equipped with master station/intelligent device station functions
- Auto refresh function is supported
- Parameters can be set with GX Works3, greatly reducing programming man-hours
- System status check via CC-Link diagnostics is possible
- Increased maximum number of connectable stations

Seamlessly access other stations

**Other station access function supported**

Perform program write/read and device monitoring, etc. for another station’s PLC within the same network using the GX Works3 connected to own station. There’s no need to connect GX Works3 and perform programming for each MELSEC iQ-F Series module, so programming man-hours can be reduced.

Use as either station

**Equipped with master station/intelligent device station functions**

The module is equipped with both the master station and intelligent device station functions, so it can be used for either type of station by changing the parameter.

Simplifying network control

**Increased maximum number of connectable stations**

The maximum number of stations has been increased compared to conventional models, so a variety of network environments are supported.

Control the entire system with master station settings

**Transmission speed auto-tracking function**

When using as the intelligent device station, the transmission speed can be set to “auto-tracking”. The master station’s transmission speed is automatically tracked, thereby eliminating setting mistakes.

*: In case of CC-Link Ver. 2, the number of connectable stations changes depending on the extended cyclic setting of slave stations.
Reinforcing "monitoring" of sensor status through collaboration of sensor and Mitsubishi Electric FA products

Connection to the Anywire Co., Ltd. AnyWireASLINK system supported

The sensor disconnection detection, etc. are helpful for preventive maintenance

Auto refresh function is supported

Parameters can be set with GX Works3, greatly reducing programming man-hours

Easy wiring and improved vibration resistance realized with spring clamp terminal

Building a system with sensors

Connection to the Anywire Co., Ltd. AnyWireASLINK system supported

The AnyWireASLINK system performs central monitoring of the sensor status from the PLC, and can be used to detect disconnection/short circuit, to set the sensor sensitivity, and to monitor the status, etc. Flexible branching and connections are possible as there are no restrictions to the minimum distance between each terminal, and the arrangement method can be selected freely from T-branch, multi-drop or star formats.

Before trouble occurs

Supporting preventive maintenance

By monitoring the sensor status from the PLC, the occurrence of faults such as a drop in sensor light receiving amount can be predicted, and production line stops can be prevented beforehand.

Equipment at a remote location is also supported

Remote address change function

The ID (address) for one slave unit can be changed from the buffer memory without using an address writer. The slave ID can be changed even from a remote location.

A diverse range of sensors from Anywire Co., Ltd. can be used.

For I/O up to 2-point I/O

ASLINKER

Cable type

Connector type

General-purpose sensor head connection

ASLINKAMP

Directly connect the sensor

ASLINKSENSOR

For I/O up to 8-point I/O

ASLINKTERMINAL

8-point input terminal

8-point output terminal

Contact Anywire Co., Ltd. for details on slave units compatible with the remote address change function.

Power by

Anywire ASLINKER

ASLINKTERMINAL

ASLINKAMP

ASLINKSENSOR

ID0

ID30

Changes complete!

ON (sufficient)

ON (caution)

OFF (insufficient)

Initial stage

After time passes

Status monitoring

Parameter changes

Dust buildup prevents sensing

1: Total length including branch lines

2: Number of modules varies depending on the current consumption of each slave module
Increased functionality introduces new possibilities to industry.

The MELSEC iQ-F Series functions have been strengthened to support “The next level of industry”.

**Data logging function**

Information from the computer or network devices can be periodically saved on the SD memory card. Use the saved data to efficiently analyze the system’s operation status and the cause of trouble. Simple settings using the logging setting tool eliminate the need for additional programs.

Trouble can be efficiently analyzed using [Trigger Logging] that limits the data to the situation before and after the trouble occurred. Data save can be limited to important data by setting the conditions.

**Memory dump function**

The CPU module device value can be saved in the SD memory card at an arbitrary timing. By setting the trigger to be established when an error occurs, the status at error occurrence can be confirmed. This is helpful in investigating and pinpointing the cause.

The collection results can be confirmed with GX Works3. The device list can be displayed in the memory dump results display, and the memory dump conditions can be repeated on the offline monitor.

---

1. FX5U/FX5UC Ver. 1.040 and later, with serial No. 16Y**** and later supported, GX Works3 Ver. 1.030G and later supported, CPU module logging configuration tool Ver. 1.64S and later supported
2. The data logging function and memory dump function cannot be used simultaneously.
3. For the CPU module logging configuration tool, contact your local Mitsubishi Electric representative.
4. FX5U/FX5UC Ver. 1.040 and later, with serial No. 16Y**** and later supported, GX Works3 Ver. 1.030G and later supported
5. FX5U/FX5UC Ver. 1.050 and later, with serial No. 16Y**** and later supported, GX Works3 Ver. 1.035M and later supported
Automatically establish a data link by connecting two CPU modules

Parallel link function\(^1\)

This function connects two CPU modules and automatically links mutual device data. ON/OFF status and data register values of the other station can be checked.

Normal parallel link mode/high-speed parallel link mode can be selected depending on the desired number of link points and link time. Parallel link can only be used on one channel of the CPU module.

Prevent illegal access

IP filter function\(^1\)

When the IP address to be permitted or blocked is set in the parameters, access from specific devices are restricted. The access source IP address can be identified to prevent accessing from illegal IP addresses.

For preventive maintenance and high-volume programming

Data backup/restoration function (Device/label data\(^3\^4\), data memory\(^5\))

The device/label data in the CPU module and the data memory can be backed up onto the SD memory card.\(^6\) The backed up data can be restored as needed.

Restore is possible even without a PC!

If the SD memory card contains data that is protected with the file password function, it cannot be backed up or restored. When the security key authentication function is set, the program cannot be executed until the security key is written into the CPU module.

If the CPU module contains data that is protected with the file password function, it cannot be backed up or restored. When the security key authentication function is set, the program cannot be executed until the security key is written into the CPU module.

---

\(^1\): FX5U/FX5UC Ver. 1.050 and later supported, GX Works3 Ver. 1.035M and later supported

\(^2\): 50 m or less when including built-in RS-485 port and FX5-485-BD

\(^3\): FX5U/FX5UC Ver. 1.045 and later supported

\(^4\): Excluding intelligent function module buffer memory

\(^5\): FX5U/FX5UC Ver. 1.050 and later supported

\(^6\): FX5U/FX5UC serial numbers 16Y**** and later supported
Multiple input module

FX5-8AD

- **Power supply specifications**
  - **External power supply**
    - Power supply voltage: 24 V DC, ±20%, ±15%
    - Allowable instantaneous power failure time: Operation continues when the instantaneous power failure is shorter than 5 ms
    - Current consumption: 110 mA
  - **Internal power supply**
    - Power supply voltage: 24 V DC
    - Current consumption: 49 mA

- **Performance specifications**
  - **Number of input points**: 8 points (8 channels)
  - **Conversion Conversion mode**:
    - Digital output value (16-bit signed binary)
    - Power supply voltage: 24 V DC
  - **Isolation method**:
    - Between input terminal and PLC: Photocoupler
    - Between input terminal and channels: Non-isolation
  - **Number of occupied I/O points**: 8 points
  - **Applicable CPU module**: FX5U/FX5UC CPU module: Ver. 1.050 or later
  - **Applicable engineering tool**: GX Works3: Ver. 1.035M or later

**Voltage/current input specifications**

- **Analog input voltage**: -10 to 10 V DC (Input resistance 1 MΩ)
- **Current consumption**: 40 mA
- **Power supply voltage**: 24 V DC
- **Current consumption**: 100 mA
- **FX5-CNV-IFC or FX5-C1PS-5V is necessary to connect FX5-8AD to the FX5UC CPU module.**
- **Conversion speed**:
  - 1 CH conversion mode: 1 ms/2 ch
  - 2 CH conversion mode: 1 ms/4 ch

**Temperature control module

FX5-4LC

- **Power supply specifications**
  - **External power supply**
    - Power supply voltage: 24 V DC, ±20%, ±15%
    - Allowable instantaneous power failure time: Operation continues when the instantaneous power failure is shorter than 5 ms
    - Current consumption: 25 mA
  - **Internal power supply**
    - Power supply voltage: 24 V DC
    - Current consumption: 140 mA

- **Performance specifications**
  - **Control method**: Two-position control, PID control, Heating/cooling PID control
  - **Control operation period**: 250 ms/4 ch
  - **Process temperature range**:
    - K: -200 to +1300˚C (-300 to +2400˚F)
    - J: -200 to +480˚C (-300 to +900˚F)
    - R: 0 to 1700˚C (0 to 3020˚F)
    - S: 0 to 1800˚C (0 to 3212˚F)
    - T: -200 to +100˚C (-328 to +212˚F)
    - L: 80 to 1200˚C (0 to 2100˚F)
    - E: -200 to +1000˚C (-300 to +1800˚F)
  - **Micro voltage input**: 0 to 10 mV (DC), 0 to 100 mV (DC), 0 to 1 V (DC), 0 to 10 V (DC)
  - **Current consumption**: 140 mA
  - **Maximum load current**: 140 mA
  - **Maximum instantaneous power failure time**: shorter than 5 ms

**Voltage/current input specifications**

- **Analog input voltage**: -20 to +20 mA, -32000 to +32000
  - 625 nA
  - 500 nA
- **Voltage/current input**: 4 to 20 mA, 0 to 32000
  - 500 nA
  - 4 to 20 mA, 0 to 32000
  - 500 nA

**Control specifications**

- **Control operation period**: 250 ms/4 ch
- **Process temperature range**:
  - K: -200 to +1300˚C (-300 to +2400˚F)
  - J: -200 to +480˚C (-300 to +900˚F)
  - R: 0 to 1700˚C (0 to 3020˚F)
  - S: 0 to 1800˚C (0 to 3212˚F)
  - T: -200 to +100˚C (-328 to +212˚F)
  - L: 80 to 1200˚C (0 to 2100˚F)
  - E: -200 to +1000˚C (-300 to +1800˚F)

**Insulation method**

- **Between input terminal and PLC**: Photocoupler
- **Between input terminal and channels**: Non-isolation

**Number of occupied I/O points**: 8 points

**Applicable engineering tool**: FX Works3: Ver. 1.035M or later
## Power supply specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-axis pulse train positioning module FX5-20PG-P</td>
<td></td>
</tr>
<tr>
<td>FX5U/FX5UC CPU module</td>
<td></td>
</tr>
<tr>
<td>FX5-CCL-MS</td>
<td></td>
</tr>
</tbody>
</table>

### Performance specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of control axes</td>
<td>2 axes</td>
</tr>
<tr>
<td>Pulse output form</td>
<td>Transistor</td>
</tr>
<tr>
<td>Interpolation function</td>
<td>2-axis linear interpolation, 2-axis circular interpolation</td>
</tr>
<tr>
<td>Control method</td>
<td>PNP (input) to 0 V, control input off, no control (line and as can be set), speed control, speed-position switching control, position-speed switching control</td>
</tr>
<tr>
<td>Central units</td>
<td></td>
</tr>
<tr>
<td>Positioning data</td>
<td>500 divided by maximum positioning distance between axes</td>
</tr>
<tr>
<td>Number of write access to flash ROM</td>
<td>20000 times maximum</td>
</tr>
<tr>
<td>Number of occupied I/O points</td>
<td>8 points</td>
</tr>
<tr>
<td>Applicable engineering tool</td>
<td>GX Work3, Ver. 1.03 or later</td>
</tr>
<tr>
<td>Indication of operation</td>
<td>None (Operation check via buffer memory is possible.)</td>
</tr>
<tr>
<td>Response time</td>
<td>1 ms or less</td>
</tr>
<tr>
<td>Signal format</td>
<td>NPN open collector transistor</td>
</tr>
<tr>
<td>OFF current</td>
<td>0.5 mA or less</td>
</tr>
<tr>
<td>ON current</td>
<td>2 mA or more</td>
</tr>
<tr>
<td>Input current</td>
<td>5 mA</td>
</tr>
<tr>
<td>Insulation of circuit</td>
<td>Photo-coupler insulation</td>
</tr>
<tr>
<td>OFF current</td>
<td>1.7 mA or less</td>
</tr>
<tr>
<td>ON current</td>
<td>3.5 mA or more</td>
</tr>
<tr>
<td>Input current</td>
<td>5 mA</td>
</tr>
<tr>
<td>Signal voltage</td>
<td>24 V DC</td>
</tr>
<tr>
<td>Maximum load current</td>
<td>100 mA</td>
</tr>
<tr>
<td>Output form</td>
<td>PULSE/SIGNAL mode, CW/CCW mode, A phase/B phase (multiple of 4), A phase/B phase (multiple of 1)</td>
</tr>
<tr>
<td>Output frequency</td>
<td>1 to 65535 ms</td>
</tr>
<tr>
<td>PULSE/SIGNAL mode</td>
<td></td>
</tr>
<tr>
<td>CW/CCW mode</td>
<td></td>
</tr>
<tr>
<td>A phase/B phase (multiple of 4)</td>
<td></td>
</tr>
<tr>
<td>A phase/B phase (multiple of 1)</td>
<td></td>
</tr>
<tr>
<td>Output</td>
<td></td>
</tr>
<tr>
<td>Unit: mm</td>
<td></td>
</tr>
</tbody>
</table>

### External dimensions

<table>
<thead>
<tr>
<th>Item</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-4.5 Mounting holes</td>
<td></td>
</tr>
</tbody>
</table>

## CC-Link system master/intelligent device module FX5-CCL-MS

### Power supply specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>FX5U/FX5UC CPU module</td>
<td></td>
</tr>
<tr>
<td>FX5-CCL-MS</td>
<td></td>
</tr>
</tbody>
</table>

### Performance specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of link points per system</td>
<td>1 to 4 stations (The number of stations can be changed using the engineering tool.)</td>
</tr>
<tr>
<td>Maximum number of connecting stations (master station)</td>
<td>Refer to List of link points by number of occupied stations</td>
</tr>
<tr>
<td>Number of link points per link points</td>
<td>Refer to List of link points by number of occupied stations</td>
</tr>
<tr>
<td>Power supply specifications</td>
<td></td>
</tr>
<tr>
<td>Number of link points</td>
<td></td>
</tr>
</tbody>
</table>

### Applicable engineering tool

<table>
<thead>
<tr>
<th>Item</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>GX Work3: Ver. 1.030 or later</td>
<td></td>
</tr>
<tr>
<td>FX5U/FX5UC CPU module</td>
<td></td>
</tr>
<tr>
<td>FX5-CCL-MS</td>
<td></td>
</tr>
</tbody>
</table>

### External dimensions

<table>
<thead>
<tr>
<th>Item</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-4.5 Mounting holes</td>
<td></td>
</tr>
</tbody>
</table>

The values in parenthesis are the number of available points in the intelligent device station.
AnyWireASLINK system master module FX5-ASL-M

- **Power supply specifications**
  - **External power supply**
    - Power supply voltage: 24 V DC (+5%,-10%), ripple voltage 0.5 Vp-p or lower
    - Recommended voltage: 26.4 V DC (24 V DC +10%)
  - **Internal power supply**
    - Power supply voltage: 5 V DC
  - Current consumption: 100 mA
  - Transmission cable supply current: MAX 2 A

- **Performance specifications**
  - Transmission clock: 27.0 kHz
  - Maximum transmission distance (total length): 200 m
  - Transmission system: DC power superimposed total frame cyclic system
  - Transmission protocol: Dedicated protocol (AnyWireASLINK)
  - Error control: Checksum, double-check system
  - Number of connected I/O points: 384 points maximum
    - Input: maximum 256 points, output: maximum 256 points
  - Number of connected slave modules: 128 maximum
  - External interface (power supply part/communication part):
    - Push-in type 7-piece spring clamp terminal block
  - DAS function:
    - Disconnected transmission cable location detection function
    - Transmission cable short detection function
    - Transmission cable voltage drop detection function
  - Transmission cable (DP, DN):
    - UL-listed general-purpose 2-wire cable
    - UL-listed general-purpose wire
  - Power supply cable (24V, 0V):
    - Dedicated flat cable
  - Memory:
    - Built-in EEPROM (Number of times of overwrite: 100000 times)
  - Number of occupied I/O points:
    - CPU module: 8 points
    - I/O modules: 8 points
  - Number of connectable units:
    - CPU module: 1 module
    - I/O modules: 20
  - Applicable CPU module:
    - FX5UC CPU module: Ver. 1.00 or later
  - Applicable engineering tool:
    - GX Works3: Ver. 1.035M or later

- **External dimensions**

- **Safety Warning**
  - To ensure proper use of the products in this document, please be sure to read the instruction manual prior to use.

---

**Product list**

<table>
<thead>
<tr>
<th>Item</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>FX5-SCU</td>
<td>Multiple input module</td>
</tr>
<tr>
<td>FX5-SCU-1</td>
<td>Temperature controller module</td>
</tr>
<tr>
<td>FX5-SCU-2</td>
<td>Axis position潭位詛控模醳</td>
</tr>
<tr>
<td>FX5-SCU-3</td>
<td>CC-Link Link system master/intelligent device module</td>
</tr>
<tr>
<td>FX5-SCU-4</td>
<td>AnyWireASLINK system master module</td>
</tr>
<tr>
<td>FX5-SCU-5</td>
<td>External device connection connector (40-pin)</td>
</tr>
<tr>
<td>FX5-SCU-6</td>
<td>Crimped type (straight connection)</td>
</tr>
<tr>
<td>FX5-SCU-7</td>
<td>External device connection connector (40-pin)</td>
</tr>
<tr>
<td>FX5-SCU-8</td>
<td>Soldered type (slip street/enclosed connection type)</td>
</tr>
<tr>
<td>FX5-SCU-9</td>
<td>MELSEC iQ-F FX5U User’s Manual (Hardware)</td>
</tr>
<tr>
<td>FX5-SCU-10</td>
<td>MELSEC iQ-F FX5UC User’s Manual (Hardware)</td>
</tr>
<tr>
<td>FX5-SCU-11</td>
<td>MELSEC iQ-F FX5U User’s Manual (Hardware)</td>
</tr>
<tr>
<td>FX5-SCU-12</td>
<td>MELSEC iQ-F FX5UC User’s Manual (Hardware)</td>
</tr>
<tr>
<td>FX5-SCU-13</td>
<td>MELSEC iQ-F FX5U User’s Manual (Hardware)</td>
</tr>
<tr>
<td>FX5-SCU-14</td>
<td>MELSEC iQ-F FX5UC User’s Manual (Hardware)</td>
</tr>
<tr>
<td>FX5-SCU-15</td>
<td>MELSEC iQ-F FX5U User’s Manual (Hardware)</td>
</tr>
<tr>
<td>FX5-SCU-16</td>
<td>MELSEC iQ-F FX5UC User’s Manual (Hardware)</td>
</tr>
<tr>
<td>FX5-SCU-17</td>
<td>MELSEC iQ-F FX5U User’s Manual (Hardware)</td>
</tr>
<tr>
<td>FX5-SCU-18</td>
<td>MELSEC iQ-F FX5UC User’s Manual (Hardware)</td>
</tr>
<tr>
<td>FX5-SCU-19</td>
<td>MELSEC iQ-F FX5U User’s Manual (Hardware)</td>
</tr>
<tr>
<td>FX5-SCU-20</td>
<td>MELSEC iQ-F FX5UC User’s Manual (Hardware)</td>
</tr>
</tbody>
</table>

---

**New publication, effective May 2017**

Specifications subject to change without notice.