

PROGRAMMABLE CONTROLLERS

MELSEC iQ-F Series

General Specifications

(General specifications other than those listed below are the same as those of the connected CPU module.)

Item	Specifications
Operating ambient temperature*	-20 to 55°C
Withstand voltage	500 V AC for 1 minute
Insulation resistance	10 MΩ or higher by 500 V DC insulation resistance tester

*: When using the FX5-CCLGN-MS manufactured in December 2020 or earlier, the operating ambient temperature is -20 to 50°C. The operating ambient temperature of the programmable controller system is the same.

Power Supply Specifications

Item	Specifications
Power supply voltage	24 V DC +20%/-15%
Allowable instantaneous power failure time	Operation continues for an instantaneous power failure of 1 ms or less.
Current consumption	220 mA

Performance Specifications

Item	Description
Station number	Master station: 0, Local station: 1 to 120
Number of connectable modules	One module can be connected to the CPU module for each station type. Master station: 1, Local station: 1
Maximum number of link points per network	RX, RY 16 K points each (16384 points each, 2 K bytes each) RW, RWw 8 K points each (8192 points each, 16 K bytes each)
Maximum number of link points per station*	Master station RX, RY 8 K points each (8192 points each, 1 K bytes each) RW, RWw 4 K points each (4096 points each, 8 K bytes each) Local station RX, RY 16 K points each (16384 points each, 2 K bytes each) RW, RWw 8 K points each (8192 points each, 16 K bytes each)
Communication speed	1 Gbps
Minimum synchronization cycle	250.00 μs
Authentication Class	Authentication Class B device
Maximum number of connectable stations	When used as a master station 61 When used as a local station 121
Communication cable	Ethernet cable which satisfies standard: Category 5e or higher, straight cable (double shielded, STP)
Overall cable distance	Line topology 12000 m (when 121 stations are connected) Others Depends on the system configuration.
Maximum station-to-station distance	100 m
Network number setting range	1 to 239
Network topology	Line topology, star topology (Coexistence of line topology and star topology is also possible.)
Communication method	Time sharing method
Transient transmission capacity	1920 bytes
Number of occupied input/output points	8 points

*: The maximum number of points for all link devices may not be used simultaneously depending on the number of slave stations, or the number of points and assignments of the link devices that are set in the "Network Configuration Settings" of the "Basic Settings".

Performance Specifications of Ethernet

Item	Description
Data transmission speed	1 Gbps
Communication mode	1000BASE-T Full-duplex
Interface	RJ45 connector (Auto MDI/MDI-X)
Maximum frame size	1518 bytes
Maximum segment length	100 m ^{*1}
Number of cascade connections	1000BASE-T *2
IP version	IPv4
Number of simultaneous open connections (maximum number of connections)	Connection with MELSOFT products 8 connections ^{*3} Connection to SLMP-compatible devices

*1: For maximum segment length (length between switching hubs), consult the manufacturer of the switching hub used.

*2: Consult the manufacturer of the switching hub used.

*3: In the case of one connection per device, up to eight devices can be connected.

Safety Warning

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

FX5-CCLGN-MS Support Conditions

Applicable CPU modules	FX5U/FX5UC: Ver. 1.210 or later
Applicable engineering tool	GX Works3: Ver. 1.065T or later

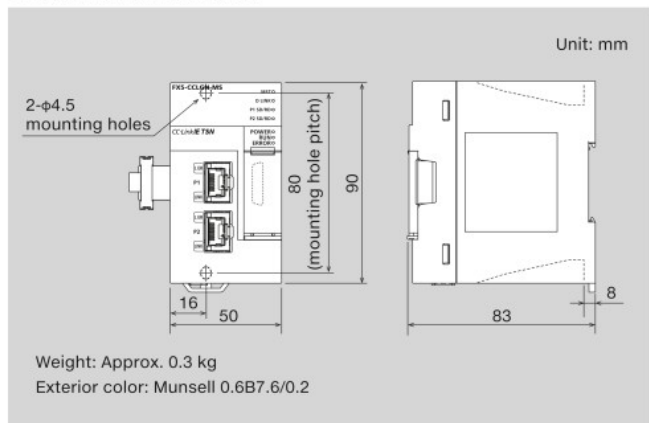
Differences in specifications from MELSEC iQ-R Series CC-Link IE TSN module (RJ71GN11-T2)

Item	FX5-CCLGN-MS	RJ71GN11-T2
Station type	Master station or local station	Master station or local station
Maximum number of link points per station	Master station RX, RY	8192 points each
	Master station RW, RWw	4096 points each
	Local station RX, RY	16384 points each
	Local station RW, RWw	8192 points each
Communication speed	1 Gbps/100 Mbps ^{*1}	1 Gbps/100 Mbps
Minimum synchronization cycle	250.00 μs	125.00 μs
Maximum number of connectable stations	When used as master station: 61 stations	121 stations
Communication by SLMP	Server	Server/client
Access to other stations using engineering tool	Supported ^{*2}	Supported
Multi-cast mode	Supported	Supported
Network topology	Line topology, star topology (coexistence of line topology and star topology is also possible.)	Line topology, star topology (coexistence of line topology and star topology is also possible.), ring topology
Communication with safety station	Unsupported	Supported
CIA-402 CAN profile operation	Unsupported	Supported

*1: 100 Mbps will be supported in the future.

*2: Accessible within the same network.

External Dimensions



Product List

Item	Specifications
FX5-CCLGN-MS	FX5-CCLGN-MS master/local module for CC-Link IE TSN
FX5-U-CCIETSN-E	MELSEC iQ-F FX5 User's Manual (CC-Link IE TSN) Model code: 09R739
FX5U-U-HW-E	MELSEC iQ-F FX5U User's Manual (Hardware) Model code: 09R536
FX5UC-U-HW-E	MELSEC iQ-F FX5UC User's Manual (Hardware) Model code: 09R558

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