

**Production Discontinuation of the MELSEC-Q Series MELSECNET/H Modules**

## ■Date of Issue

September 2022 (Ver.B: March 2024)

## ■Relevant Models

QJ71LP21-25, QJ71LP21S-25, QJ72LP25-25, QJ71LP21G, QJ71LP21GE, QJ72LP25G, QJ72LP25GE, QJ71BR11, QJ72BR15, QJ71NT11B

Thank you for your continued support of Mitsubishi Electric programmable controllers, MELSEC-Q series.  
This bulletin informs you that the following MELSECNET/H modules will be discontinued.

**1 MODELS TO BE DISCONTINUED**

Product	Model
MELSECNET/H optical (SI) loop type module	QJ71LP21-25
	QJ71LP21S-25
	QJ72LP25-25
MELSECNET/H optical (GI) loop type module	QJ71LP21G
	QJ71LP21GE
	QJ72LP25G
	QJ72LP25GE
MELSECNET/H coaxial bus module	QJ71BR11
	QJ72BR15
MELSECNET/H twisted bus module	QJ71NT11B

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## 2 SCHEDULE

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### 2.1 MELSECNET/H Optical (SI) Loop Type Modules

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Transition to make-to-order: March 31, 2024

Order acceptance: Until February 29, 2028

Production discontinuation: March 31, 2028

### 2.2 MELSECNET/H Optical (GI) Loop Type Modules, MELSECNET/H Coaxial Bus Modules, and MELSECNET/H Twisted Bus Modules

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Transition to make-to-order: March 31, 2026

Order acceptance: Until February 28, 2029

Production discontinuation: March 30, 2029

## 3 REASON FOR DISCONTINUATION

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Some parts of the module are now obsolete, and our company will have difficulty to maintain our production system.

## 4 REPAIR SUPPORT

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### 4.1 MELSECNET/H Optical (SI) Loop Type Modules

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Repair support period: Until March 31, 2035 (for seven years after the discontinuation of production)

### 4.2 MELSECNET/H Optical (GI) Loop Type Modules, MELSECNET/H Coaxial Bus Modules, and MELSECNET/H Twisted Bus Modules

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Repair support period: Until March 31, 2036 (for seven years after the discontinuation of production)

## 5 ALTERNATIVE MODELS

### 5.1 Replacement In the PLC To PLC Network

Model to be discontinued	Alternative model		
MELSECNET/H network module	MELSECNET/H network module	CC-Link IE Controller Network module	CC-Link IE TSN optical network module
QJ71LP21-25	RJ71LP21-25	RJ71GP21-SX QJ71GP21-SX	RJ71GN11-SX
QJ71LP21S-25	—	RJ71GP21S-SX QJ71GP21S-SX	RJ71GN11-SX
QJ71LP21G	—	RJ71GP21-SX QJ71GP21-SX	RJ71GN11-SX
QJ71LP21GE	—	RJ71GP21-SX QJ71GP21-SX	RJ71GN11-SX
QJ71BR11	RJ71BR11	RJ71GP21-SX QJ71GP21-SX	RJ71GN11-SX
QJ71NT11B	—	RJ71GP21-SX QJ71GP21-SX	RJ71GN11-SX

The MELSECNET/H models of the MELSEC iQ-R series do not have alternative models equivalent to the QJ71LP21S-25, which is the model with the external power supply function, and there are no plans to support it in the future. If the external power supply function is required, change the network to the CC-Link IE Controller Network (RJ71GP21S-SX or QJ71GP21S-SX).

#### Comparison of cable specifications

##### ■ MELSECNET/H network

##### 1. Optical fiber cable

The cables used for the QJ71LP21-25 or QJ71LP21S-25 are available for the RJ71LP21-25, but not available for the RJ71GP21-SX and QJ71GP21-SX.

The following table shows the specifications of optical fiber cables.

Cable	Distance between stations		Available connector
	25Mbps	10Mbps	
H-PCF Optical fiber cable	400m	1000m	Connectors equivalent to F06/F08 type connectors (Complies with OITDA*1 CN 03/04)
Broadband, H-PCF Optical fiber cable	1000m	1000m	
Broadband, silica glass Optical fiber cable	1000m	1000m	

\*1 OITDA: Optoelectronics Industry and Technology Development Association

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**2. Coaxial cable**

There is no difference in the overall cable distance and station-to-station distance depending on the type of coaxial cable. The following table shows the specifications of coaxial cables.

Item	3C-2V (Complies with JIS C 3501)	5C-2V (Complies with JIS C 3501)	5C-FB (Complies with JIS C 3502)	S-5C-FB (Complies with JIS C 3502)
Available connector	Connector plugs for 3C-2V. The following connector plugs are recommended. • BNC-SP-3D2V-DA1 <sup>*1</sup> (Manufactured by DDK Ltd.) • BCP-A3 <sup>*2</sup> (Manufactured by Canare Electric Co., Ltd.)	Connector plugs for 5C-2V. The following connector plugs are recommended. • BNC-P-5-NiCAu-CF <sup>*1</sup> (Manufactured by DDK Ltd.) • BCP-A5 <sup>*2</sup> (Manufactured by Canare Electric Co., Ltd.)	Connector plugs for 5C-FB or S-5C-FB. The following connector plugs are recommended. • BCP-A5F <sup>*2</sup> (Manufactured by Canare Electric Co., Ltd.)	

\*1 It is a solder type connector.

\*2 It is a crimping type connector.

Refer to the following table to adjust the station-to-station distance according to the number of stations to be connected as follows.

Number of stations to be connected	Cable	Distance between stations
2 to 9	3C-2V	1 to 300m
	5C-2V	1 to 500m
	5C-FB, S-5C-FB	1 to 500m
10 to 32	3C-2V, 5C-2V, 5C-FB, S-5C-FB	1 to 5m
	3C-2V, 5C-2V, 5C-FB, S-5C-FB	13 to 17m
	3C-2V, 5C-2V, 5C-FB, S-5C-FB	25 to 300m
	5C-2V, 5C-FB, S-5C-FB	300 to 500m

**■ CC-Link IE Controller Network**

The optical fiber cables used for the QJ71LP21-25, QJ71LP21S-25, QJ71LP21G, or QJ71LP21GE are not available for the RJ71GP21-SX and QJ71GP21-SX.

When using the RJ71GP21-SX or QJ71GP21-SX, use the following optical fiber cable.

Cable	Distance between stations	Available connector	Standard
Optical fiber cable (multimode optical (GI) fiber)	550m	Duplex LC connector	Cables that satisfy the following standards • IEEE802.3 (1000BASE-SX) • IEC 60793-2-10 Types A1a.1

**■ CC-Link IE TSN Optical Network**

The optical fiber cables used for the QJ71LP21G or QJ71LP21GE are not available for the RJ71GN11-SX.

When using the RJ71GN11-SX, use the following optical fiber cable.

Cable	Distance between stations	Available connector	Standard
Optical fiber cable (multimode optical (GI) fiber)	550m	Duplex LC connector	Cables that satisfy the following standards • IEEE802.3z (1000BASE-SX) • IEC 60793-2-10 Types A1a.1

## 5.2 Replacement In the Remote I/O Network

Model to be discontinued	Alternative model	
MELSECNET/H network module	MELSECNET/H network module	CC-Link IE Field Network module
QJ71LP21-25 (master) QJ72LP25-25 (remote I/O)	RJ71LP21-25 (PLC to PLC)	RJ71GF11-T2 (master) RJ72GF15-T2 (remote head)
QJ71LP21G (master) QJ72LP25G (remote I/O)	—	RJ71GF11-T2 (master) RJ72GF15-T2 (remote head)
QJ71LP21GE (master) QJ72LP25GE (remote I/O)	—	RJ71GF11-T2 (master) RJ72GF15-T2 (remote head)
QJ71BR11 (master) QJ72BR15 (remote I/O)	RJ71BR11 (PLC to PLC)	RJ71GF11-T2 (master) RJ72GF15-T2 (remote head)

The MELSECNET/H models of the MELSEC iQ-R series do not have alternative models compatible with remote I/O network, and there are no plans to support it in the future.

Replace the remote I/O network module with the RJ71LP21-25 for the MELSECNET/H PLC to PLC network or with the RJ71GF11-T2 (master) or RJ72GF15-T2 (remote head) for the CC-Link IE Field Network.

### Comparison of cable specifications

#### ■ MELSECNET/H network

##### 1. Optical fiber cable

The optical fiber cables used for the QJ71LP21-25 or QJ72LP25-25 are available for the RJ71LP21-25. The following table shows the specifications of optical fiber cables.

Cable	Distance between stations		Available connector
	25Mbps	10Mbps	
H-PCF Optical fiber cable	400m	1000m	Connectors equivalent to F06/F08 type connectors (Complies with OITDA*1 CN 03/04)
Broadband, H-PCF Optical fiber cable	1000m	1000m	
Broadband, silica glass Optical fiber cable	1000m	1000m	

\*1 OITDA: Optoelectronics Industry and Technology Development Association

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**2. Coaxial cable**

The coaxial cables used for the QJ71BR11 or QJ72BR15 are available for the RJ71BR11. The following table shows the specifications of coaxial cables.

Item	3C-2V (Complies with JIS C 3501)	5C-2V (Complies with JIS C 3501)	5C-FB (Complies with JIS C 3502)	S-5C-FB (Complies with JIS C 3502)
Available connector	Connector plugs for 3C-2V. The following connector plugs are recommended. • BNC-SP-3D2V-DA1*1 (Manufactured by DDK Ltd.) • BCP-A3*2 (Manufactured by Canare Electric Co., Ltd.)	Connector plugs for 5C-2V. The following connector plugs are recommended. • BNC-P-5-NiCAu-CF*1 (Manufactured by DDK Ltd.) • BCP-A5*2 (Manufactured by Canare Electric Co., Ltd.)	Connector plugs for 5C-FB or S-5C-FB. The following connector plugs are recommended. • BCP-A5F*2 (Manufactured by Canare Electric Co., Ltd.)	

\*1 It is a solder type connector.

\*2 It is a crimping type connector.

Refer to the following table to adjust the station-to-station distance according to the number of stations to be connected as follows.

Number of stations to be connected	Type	Distance between stations
2 to 9	3C-2V	1 to 300m
	5C-2V	1 to 500m
	5C-FB, S-5C-FB	1 to 500m
10 to 32	3C-2V, 5C-2V, 5C-FB, S-5C-FB	1 to 5m
	3C-2V, 5C-2V, 5C-FB, S-5C-FB	13 to 17m
	3C-2V, 5C-2V, 5C-FB, S-5C-FB	25 to 300m
	5C-2V, 5C-FB, S-5C-FB	300 to 500m

**■ CC-Link IE Field Network**

The optical fiber cables used for the QJ71LP21-25 or QJ72LP25-25 and the coaxial cables used for the QJ71BR11 or QJ71BR15 are not available for the RJ71GF11-T2 and RJ72GF15-T2.

When using the RJ72GF15-T2 or RJ71GF11-T2, use the following Ethernet cable.

Cable	Distance between stations	Available connector	Standard
SC-E5EW series (Ethernet cables)	100m (Cables compliant with ANSI/TIA/EIA 568-B (Category 5e))	RJ45 connector	Ethernet cables that satisfy the standards for 1000BASE-T: Straight cable (double-shielded STP cable) with category 5e or higher

**6 RECOMMENDABLE PROPOSALS**

We recommend the following solutions for the production discontinuation of the MELSEC-Q series MELSECNET/H modules.

- Purchase another or more target models as a spare by the last day of order acceptance. (☞ Page 1 MODELS TO BE DISCONTINUED)
- Consider replacing your model with a model of the MELSEC iQ-R series or other suitable series. (MELSECNET/H Transition Handbook (MELSEC-Q Series) (Scheduled to be issued in May 2024))

**REVISIONS**

Version	Date of Issue	Revision
A	September 2022	First edition
B	March 2024	Added the MELSECNET/H optical (GI) loop type modules, MELSECNET/H coaxial bus modules, and MELSECNET/H twisted bus modules.

**TRADEMARKS**

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