MITSUBISHI ELECTRIC

TECHNICAL BULLETIN

[Issue No.] FA-A-0260
[Title] Production discontinuation of MELSECNET/10 network module
[Date of Issue] March 2018
[Relevant Models] A1SJ71LP21, A1SJ71BR11, A1SJ71QLP21, A1SJ71QBR11

Thank you for your continued support of Mitsubishi Electric programmable controllers, MELSEC-AnS/QnAS series.
Production of the following MELSECNET/10 network modules will be discontinued.

1 Models to be discontinued

Product	Series	Model
MELSECNET/10 network module	MELSEC-AnS series	A1SJ71LP21
		A1SJ71BR11
	MELSEC-QnAS series	A1SJ71QLP21
		A1SJ71QBR11

2 Schedule

Order acceptance: Until February 28, 2019
Production discontinuation: March 31, 2019

3 Reason for discontinuation

Some parts of the above products are now obsolete, and we will have difficulty to maintain our production system.

4 Repair support

Repair support period: Until March 31, 2026 (for seven years after the discontinuation of production)

5 Alternative models

Models to be discontinued		Alternative models	
Series	**Model**	**Series**	**Model**
MELSEC-AnS series	A1SJ71LP21	MELSEC-Q series	QJ71LP21-25
	A1SJ71BR11		QJ71BR11
MELSEC-QnAS series	A1SJ71QLP21		QJ71LP21-25
	A1SJ71QBR11		QJ71BR11

Point

Replace the whole system, including the power supply module, base unit, and CPU module, with that of the MELSEC-Q series.

MITSUBISHI ELECTRIC CORPORATION
HEAD OFFICE : TOKYO BUILDING, 2-7-3 MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN
NAGOYA WORKS : 1-14 , YADA-MINAMI 5-CHOME , HIGASHI-KU, NAGOYA , JAPAN

6 Procedure and precautions for replacement

For details, refer to the following.

📖Transition from MELSEC-A/QnA (Large Type), AnS/QnAS (Small Type) Series to Q Series Handbook (Network Modules) L08048ENG

7 Performance specifications comparison between the discontinued and alternative models

7.1 Performance specifications comparison between A1SJ71LP21/ A1SJ71QLP21 and QJ71LP21-25

Item			Models to be discontinued		Alternative models
			A1SJ71LP21	A1SJ71QLP21	QJ71LP21-25
Maximum number of link points per network	PLC to PLC network	LX/LY	8192 points		8192 points
		LB	8192 points		16384 points (MELSECNET/10 mode: 8192 points)
		LW	8192 points		16384 points (MELSECNET/10 mode: 8192 points)
	Remote I/O network	LX/LY	8192 points		8192 points
		LB	8192 points		16384 points (remote master station → remote submaster station/remote I/O station: 8192 points, remote submaster station/remote I/O station → remote master station: 8192 points)
		LW	8192 points		16384 points (remote master station → remote submaster station/remote I/O station: 8192 points, remote submaster station/remote I/O station → remote master station: 8192 points)
Maximum number of link points per station	PLC to PLC network		((LY + LB) ÷ 8 + (2 × LW)) ≤ 2000 bytes		■MELSECNET/H mode, MELSECNET/10 mode ((LY + LB) ÷ 8 + (2 × LW)) ≤ 2000 bytes ■MELSECNET/H extended mode ((LY + LB) ÷ 8 + (2 × LW)) ≤ 35840 bytes
	Remote I/O network		■Master station → remote I/O station ((LY + LB) ÷ 8 + (2 × LW)) ≤ 1600 bytes ■Remote I/O station → master station ((LY + LB) ÷ 8 + (2 × LW)) ≤ 1600 bytes	■Remote master station/ remote submaster station → remote I/O station ((LY + LB) ÷ 8 + (2 × LW)) ≤ 1600 bytes ■Remote I/O station → remote master station/ remote submaster station ((LY + LB) ÷ 8 + (2 × LW)) ≤ 1600 bytes ■Remote master station ↔ remote submaster station ((LY + LB) ÷ 8 + (2 × LW)) ≤ 2000 bytes	■Remote master station → remote I/O station ((LY + LB) ÷ 8 + (2 × LW)) ≤ 1600 bytes ■Remote I/O station → remote master station ((LY + LB) ÷ 8 + (2 × LW)) ≤ 1600 bytes ■Multiplexed remote master station ↔ multiplexed remote submaster station ((LY + LB) ÷ 8 + (2 × LW)) ≤ 2000 bytes
Communication speed			10Mbps		25Mbps/10Mbps (using a mode setting switch)
Number of connectable modules per network	PLC to PLC network		64 stations (control station: 1, normal station: 63)		64 stations (control station: 1, normal station: 63)
	Remote I/O network		65 stations (remote master station: 1, remote I/O station: 64)		65 stations (remote master station: 1, remote I/O station: 64)
Connection cable			Optical fiber cable		Optical fiber cable
Applicable connector			Two-core optical connector plug		Two-core optical connector plug
Overall cable distance			30km		30km

Item		Models to be discontinued		Alternative models
		A1SJ71LP21	A1SJ71QLP21	QJ71LP21-25
Distance between stations	25Mbps	—		• SI optical cable: 200m • H-PCF optical cable: 400m • Broad-band H-PCF optical cable: 1km • QSI optical cable: 1km
	10Mbps	• SI optical cable: 500m • H-PCF optical cable: 1km • Broad-band H-PCF optical cable: 1km • QSI optical cable: 1km		• SI optical cable: 500m • H-PCF optical cable: 1km • Broad-band H-PCF optical cable: 1km • QSI optical cable: 1km
Maximum number of networks		255 (total of the number of PLC to PLC networks and that of remote I/O networks)	239 (total of the number of PLC to PLC networks and that of remote I/O networks)	239 (total of the number of PLC to PLC networks and that of remote I/O networks)
Maximum number of groups		9		32 (MELSECNET/10 mode: 9)
Number of occupied I/O points		32 points (I/O assignment: special 32 points)		32 points (I/O assignment: intelligent 32 points)
Current consumption		0.65A	0.40A	0.55A
External dimensions	Height	130mm		98mm
	Width	34.5mm		27.4mm
	Depth	93.6mm		90mm
Weight		0.18kg		0.11kg

7.2 Performance specifications comparison between A1SJ71BR11/ A1SJ71QBR11 and QJ71BR11

Item			Models to be discontinued		Alternative model
			A1SJ71BR11	A1SJ71QBR11	QJ71BR11
Maximum number of link points per network	PLC to PLC network	LX/LY	8192 points		8192 points
		LB	8192 points		16384 points (MELSECNET/10 mode: 8192 points)
		LW	8192 points		16384 points (MELSECNET/10 mode: 8192 points)
	Remote I/O network	LX/LY	8192 points		8192 points
		LB	8192 points		16384 points (remote master station → remote submaster station/remote I/O station: 8192 points, remote submaster station/remote I/O station → remote master station: 8192 points)
		LW	8192 points		16384 points (remote master station → remote submaster station/remote I/O station: 8192 points, remote submaster station/remote I/O station → remote master station: 8192 points)
Maximum number of link points per station	PLC to PLC network		((LY + LB) ÷ 8 + (2 × LW)) ≤ 2000 bytes		■MELSECNET/H mode, MELSECNET/10 mode ((LY + LB) ÷ 8 + (2 × LW)) ≤ 2000 bytes ■MELSECNET/H extended mode ((LY + LB) ÷ 8 + (2 × LW)) ≤ 35840 bytes
	Remote I/O network		■Master station → remote I/O station ((LY + LB) ÷ 8 + (2 × LW)) ≤ 1600 bytes ■Remote I/O station → master station ((LY + LB) ÷ 8 + (2 × LW)) ≤ 1600 bytes	■Remote master station/ remote submaster station → remote I/O station ((LY + LB) ÷ 8 + (2 × LW)) ≤ 1600 bytes ■Remote I/O station → remote master station/ remote submaster station ((LY + LB) ÷ 8 + (2 × LW)) ≤ 1600 bytes ■Remote master station ↔ remote submaster station ((LY + LB) ÷ 8 + (2 × LW)) ≤ 2000 bytes	■Remote master station → remote I/O station ((LY + LB) ÷ 8 + (2 × LW)) ≤ 1600 bytes ■Remote I/O station → remote master station ((LY + LB) ÷ 8 + (2 × LW)) ≤ 1600 bytes ■Multiplexed remote master station ↔ multiplexed remote submaster station ((LY + LB) ÷ 8 + (2 × LW)) ≤ 2000 bytes
Communication speed			10Mbps		10Mbps
Number of connectable modules per network	PLC to PLC network		32 stations (control station: 1, normal station: 31)		32 stations (control station: 1, normal station: 31)
	Remote I/O network		33 stations (remote master station: 1, remote I/O station: 32)		33 stations (remote master station: 1, remote I/O station: 32)
Connection cable			High frequency coaxial cable		High frequency coaxial cable
Applicable connector			• Connector plug for 3C-2V • Connector plug for 5C-2V • Connector plug for 5C-FB		• Connector plug for 3C-2V • Connector plug for 5C-2V • Connector plug for 5C-FB
Overall cable distance			• 3C-2V: 300m • 5C-2V/5C-FB: 500m Using a repeater module (A6BR10, A6BR10-DC) can extend the distance to 2.5km.		• 3C-2V: 300m • 5C-2V/5C-FB: 500m Using a repeater module (A6BR10, A6BR10-DC) can extend the distance to 2.5km.
Maximum number of networks			255 (total of the number of PLC to PLC networks and that of remote I/O networks)	239 (total of the number of PLC to PLC networks and that of remote I/O networks)	239 (total of the number of PLC to PLC networks and that of remote I/O networks)
Maximum number of groups			9		32 (MELSECNET/10 mode: 9)
Number of occupied I/O points			32 points (I/O assignment: special 32 points)		32 points (I/O assignment: intelligent 32 points)
Current consumption			0.80A		0.75A
External dimensions	Height		130mm		98mm
	Width		34.5mm		27.4mm
	Depth		104.6mm		90mm
Weight			0.33kg	0.30kg	0.11kg