TECHNICAL BULLETIN

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[Title] Product discontinuation of QnA series serial communication modules **[Date of Issue]** Dec, '05

[Relevant Models] A1SJ71QC24N, A1SJ71QC24N-R2

Thank you for your continued support of Mitsubishi programmable logic controllers, MELSEC-QnA series.

Production of the following MELSEC-QnA series models will be discontinued.

1. Models to be discontinued

Product name	Model
QnA series serial communication module	A1SJ71QC24N
	A1SJ71QC24N-R2

2. Schedule

- Transition to made-to-order production: February 28, 2006
- Order acceptance: May 31, 2006
- Production discontinuation: June 30, 2006

3. Reasons for discontinuing production

(1) Some parts of the above products are now obsolete. Therefore, we will have difficulty to maintain the production system.
(2) Compatible models (A1SJ71QC24N1, A1SJ71QC24N1-R2) have been released.

4. Repair acceptance

- Repair acceptance: Through June, 2013 (For 7 years after production discontinuation)

5. Alternative models

Discontinued model	Alternative model
A1SJ71QC24N	A1SJ71QC24N1
A1SJ71QC24N-R2	A1SJ71QC24N1-R2

When replacing the discontinued model with the alternative, there is no need to modify the programs and parameters. However, pay attention to the following precautions.

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

(1) Precautions for program reuse

Because the internal processing speed of the alternative model has been improved, the time required for accessing to the PLC CPU and transmitting messages to the external device is shorter compared with the discontinued model. (Although the functions usage is the same, the performance and response speed are changed.)

When reusing the existing program, always confirm the operation and adjust the communication timing if necessary. Examples of the communication timing adjustment are shown below.

(a) When communicating by dedicated protocol

Specify the "Message wait" time to adjust the timing in the following cases.

Particularly, adjustment is necessary when "Scanning time of the QnACPU on the alternative model installed station > Message wait time".

1) When communication is performed with the QnA frame or QnA extension frame, specify it in the alternative model buffer memory (at address 11EH/1BEH).
2) When communication is performed with the A-compatible frame, specify it in the request message transmitted from the external device.

(b) When communicating by nonprocedural or bidirectional protocol

Delay the data transmission timing.

- Data transmission from external device to alternative model
  Delay the data transmission timing from the external device. (Adjust on the external device end.)
- Data transmission from alternative model to external device
  In the case of the nonprocedural protocol, modify the sequence program to delay the data transmission from the alternative model to the external device by one scan.
  (When the bidirectional protocol is used, delay the turn-on timing of the reception data read complete signal by one scan.)

(2) Precautions for the longer EEPROM write time

The EEPROM write time of the alternative model is longer than that of the discontinued model.

Note that programs created for the discontinued model can be used without any modification.

(Example) Processing time for saving 40-byte data to an EEPROM with the PUTE instruction

* Alternative model: 913ms * Discontinued model: 102ms

(3) Precautions for the internal current consumption (5V DC) of the A1SJ71QC24N1

As the internal current consumption (5V DC) of the A1SJ71QC24N1 is slightly larger than that of the A1SJ71QC24N, take into account the total power consumption so that it will not exceed the capacity of the power supply module used.

Discontinued model	Internal current consumption (5V DC)	Alternative model	Internal current consumption (5V DC)
A1SJ71QC24N	0.35A	A1SJ71QC24N1	0.38A
A1SJ71QC24N-R2	0.30A	A1SJ71QC24N1-R2	0.30A