Mitsubishi Programmable Controllers
MELSEC-A/QnA (Large Type) Upgrade Catalog

From the MELSEC-A/QnA Series to the MELSEC-AnS/Q Series

Offering a Variety of Flexible Upgrade Options!
From the MELSEC-A/QnA Series
⇒ The MELSEC-Ans/Q Series
Offering a Variety of Flexible Upgrade Options!

Technical Bulletin

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<tr>
<td>Special function module and others</td>
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</table>

*1 : Production of AnS master/local station data link modules (A15J71AP21, A15J71AP22, and A15J71AT21B) will be continued.

Replacement Handbooks

Transition from MELSEC-A/QnA (Large Type) Series to Q Series Handbook: (Fundamentals)
LNA/08D4358EN-1C
Transition from MELSEC-A/QnA (Large Type) Series to Q Series Handbook: (Intelligent Function Modules)
LNA/08D4333EN-1B
Transition from MELSEC-A/QnA (Large Type) Series to Q Series Handbook: (Network Modules)
LNA/08D4333EN-1B
Transition from MELSEC-A/QnA (Large Type) Series to Q Series Handbook: (Communication Modules)
LNA/08D4333EN-1B
Transition from MELSEC-A/QnA (Large Type) Series to Q Series Handbook
LNA/08D4325EN-0A
Transition from MELSECNET/MINI-S3, A2C I/O to CC-Link Handbook
LNA/08D5611EN-0A
Transition from MELSEC-I/O to CC-Link/LT Handbook
LNA/08D5625EN-0A
Transition from MELSEC-A/QnA (Large Type) Series to AnS/QAS (Small Type) Series Handbook
LNA/08D56485G-0A

Upgrade Options

Reusing existing programs when changing the PLC type.
⇒ A/QnA ⇒ Q Conversion Support Tool

Replacing the CPU module with the Q Series model without changing the existing modules.
⇒ QA555-E/QA666-E Extension Base Unit

Replacing with the AnS (Small type) module when module additions are required during modifications.
⇒ A/A1S Module Conversion Adapter

Linking the A (Large type) Series and Q Series with MELSECNET (II)/B.
⇒ AnS (Small type) local station dedicated module

Replacing the AOJ2 (H) CPU with the Q Series model using existing wiring.
⇒ AOJ2 (H) Interface Terminal

Replacing MELSECNET/MINI with CC-LINK using existing wiring.
⇒ MELSECNET/MINI-S3/10 Module Wiring Conversion Adapter

Replacing with the Q Series base unit without changing existing wiring.
⇒ Upgrade Tool

Additional support
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⇒ Production Discontinuation Schedule
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⇒ Exceptions
A/QnA → Q Conversion Support Tool

Automatically extracts unconvertible locations by converting (reusing) existing programs! Also displays the revision method!

This convenient function simplifies the revision process. The revision time can be dramatically reduced.

1 Differences between two programs

1. Statement of unconverted devices
   - The original device and the converted device are displayed as shown below. The devices contained in the circuit block are displayed one line at a time.
   (E.g.) %D0001 ANI M9201 → SM1255
   (%D0001) is a search keyword in the review information list.

2. Statement of unconverted instructions
   - The original instruction and the converted instruction are displayed as shown below. The instructions contained in the circuit block are displayed one line at a time.
   (E.g.) %F00001 (LRDP K3 D10 D100 K3) → OUT SM1255
   (%F00001) is a search keyword in the review information list.

3. Statement of special function module processes
   - For the special function module instructions (FRDM, DPRO, TD, DTO and instructions using X/Y devices), a message requesting review is displayed.
   (E.g.) %I00001 SpecialFunctionModuleProcess! Refer to ReviewInformation
   (%I00001) is a search keyword in the review information list.)

Note: This support tool applies to ladder programs only.
A/QnA → Q Conversion Support tool

2 Review Information List
Detailed information is displayed hierarchically in Internet Explorer. Furthermore, information on differences between two programs and the review list are linked together.

(Example 1) Special function module processes which need to be reviewed
Click “By special function module name” in the “Programs for special function modules necessary in review” row.
Click the recommended module name next to “The recommended modules that can be replaced”.

(Example 2) Special relays and registers which are not converted to the Q program
Click “Device no. order” in the “Special relay/special register not been converted in PLC type changing” row.

A → Q Conversion Support Tool for Motion Controller
A support tool for motion controllers, which converts A Series sequence programs into Q Series sequence programs, will be available soon.

1. Displays statements of unconvertible dedicated motion commands
For automatically unconvertible dedicated motion commands such as SVST and CHSA, the original and converted commands are displayed as shown below. The commands contained in the circuit block are displayed one line at a time. [E.g.] %00001 (SVST J1 KO) → OUT SM1255 (“%00001” is a search keyword in the review information list.)

2. Displays statements of dedicated motion devices
For dedicated motion devices such as start receipt flag MD001, a message requesting review is displayed.

3. Converts SW3RN-LADDERP format comment files to GX Developer format
For A/QnA Large Type Series

QA65B-E/QA68B-E Extension Base Unit

Replacing the CPU with a QCPU while using existing modules.

The A (Large type) Series can be replaced with the Q Series step by step.

- The QA65B-E type extension base units enable to utilize existing A (large type) Series modules. Just mounting the existing modules on the extension base unit and connecting it to the Q Series, a new system controlled by Q Series CPU can be constructed. Also, the modules can be replaced step by step depending on your needs. As shown in the Step 2, you can have the complete Q Series system configuration eventually.

- The QA65B-E type extension base units are compatible with High-performance CPUs only. Basic model CPUs, Process CPUs, and Redundant CPUs do not have compatibility.
- Please refer to the "QA65B/QA68B Extension Base Unit User’s Manual (B-0800158B)" for details of modules that can be mounted on the QA65B-E type extension base unit.

For A/QnA Small Type Series

QA1S65B-E/QA1S68B-E Extension Base Unit

- The QA1S65B small type Series modules can also be used by connecting as a QCPU extension base. These extension base units can be used with QA65B-E and QA68B-E type units.

NEW

For A/QnA Large Type Series

A-A1S Module Conversion Adapter

(1) A1ADP-XX: For I/O Module
(2) A1ADP-SP: For Special Function Module

Using small type modules when additional modules are required for A/QnA System modifications.

If only small number of I/O points are to be added, and there are empty slots on the base unit:

- Select modules having necessary functions for the modifications from the A1S Series.
- Mount the A1S Series module on an empty slot of the A (large type) Series base unit using the A-A1S module conversion adapter.
- Note: It is necessary to have empty slots and enough I/O points in the existing system for the modifications.

If large number of I/O points are to be added, or there are no empty slots on the base unit:

- Select modules having necessary functions for the modifications from the CC-Link lineups.
- Remove one or some existing modules from A (large type) Series base unit to mount the A1S Series CC-Link system master/local station modules.
- Mount the A1S Series CC-Link system master/local station module on the empty slot of the A (large type) Series base unit using the A-A1S module conversion adapter.
- To replace functions of the removed modules, add modules on the CC-Link remote I/O.
Q Series can be added to the existing MELSECNET (II), enabling to share link data.

The Q Series can be added to the existing MELSECNET (II) as a local station.

Mount the AnS local station dedicated module on the Q Series QA15S E extension base unit to connect to the MELSECNET(I) system. (The QA15S E type extension base unit is compatible with High-performance CPUs only, Basic model CPUs, Process CPUs, Redundant CPUs do not have compatibility.)

Example of MELSECNET (II) configuration incorporating the Q Series

Q Series main base

(�High-performance model QCPU)

MLSECFET (III)

AnS local station dedicated module

QA15S E type extension base unit

AnS local station dedicated module

Q Series

Q Series can be added to the existing MELSECNET (II) as a local station.

Part of the existing MELSECNET (II) can be replaced with the Q Series MELSECNET/10, and data is shared via a gateway station.

Replacing the existing MELSECNET (II) with the Q Series MELSECNET/10 step by step.

Gateway set model list

<table>
<thead>
<tr>
<th>Model number</th>
<th>Main part</th>
<th>NET (II/8 part)</th>
<th>NET/10 part</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q6KT-NETGW-SS</td>
<td>A1S368</td>
<td>A1S71AP21</td>
<td>A1S71QLP21</td>
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<tr>
<td>Q6KT-NETGW-SS</td>
<td>A1S361PN</td>
<td>A1S71AP21</td>
<td>A1S71QLP21</td>
</tr>
<tr>
<td>Q6KT-NETGW-PS</td>
<td>A1S368</td>
<td>A1S71AP21</td>
<td>A1S71QLP21</td>
</tr>
<tr>
<td>Q6KT-NETGW-PS</td>
<td>A1S71AR21</td>
<td>A1S71AP21</td>
<td>A1S71QLP21</td>
</tr>
<tr>
<td>Q6KT-NETGW-TB</td>
<td>A1S71AT21B</td>
<td>A1S71AP21</td>
<td>A1S71QLP21</td>
</tr>
<tr>
<td>Q6KT-NETGW-TB</td>
<td>A1S71AT21B</td>
<td>A1S71AP21</td>
<td>A1S71QLP21</td>
</tr>
</tbody>
</table>

(f) Network type: MELSECNET (II)
D: 3G optical fiber cable (double loop)
O: 3G-50/125 optical fiber cable (double loop)
R: Coaxial cable (double loop)
T: Twisted-pair cable (stand)

(f) Network type: MELSECNET/10
B: Coaxial cable (bus)
Replacing with the MELSECNET/10 system all at once using existing wiring for MELSECNET (II) system.

Step-by-step transition to the Q Series system, mixing A Series and Q Series systems.

The entire MELSECNET (II) system is replaced with a MELSECNET/10 system while using existing wiring. Then the ACPUs can be replaced with the QCPUs step by step. Note: The MELSECNET (II) system cannot be replaced because it uses twisted pair cables.

Replacing MELSECNET (II) data link modules at all stations with MELSECNET/10 network modules, and then switch the network system over to MELSECNET/10.

- Change the MELSECNET (II) master station to the MELSECNET/10 control station.
- For CPU modules (AMCPU and ANCPU) that cannot be set as the MELSECNET/10 control stations, please consider the following:
  - Set the MELSECNET (II) local stations to the MELSECNET/10 normal stations.

For stations that are to be changed from A Series systems to Q Series systems, replace the PLCs to the Q Series, and set them as MELSECNET/10 normal stations.

By gradually transforming the A Series systems to the Q Series systems, you will be able to complete the transition to the Q Series system.

A0J2(H) Interface Terminal

Replacing only the CPU module with the QCPU using existing wiring.

- Interface terminal allowing the use of the A0J2(H) Series I/O module wiring.
- At the replacement with the Q Series system, existing wiring can be used for the interface terminal without modification.
- Interface terminal

The interface terminal contains internal relays and has functions for converting DC output to relay output and AC input to DC input. Therefore, it can be replaced in combination with a Q Series FCN connector type DC/DC module. To connect the interface terminal and an alternative module, use a cable for connection between MIL and FCN connectors.

(Example) Replacing A0J2(H) Series I/O module with a “Q” Series I/O module and interface terminal.

Before replacement

A0J2(H) CPU module
A0J2(H) Series I/O module

After replacement

Connection cables (between MIL and FCN connectors)

Remove the terminal blocks from the A0J2(H) Series I/O modules, mount the interface terminal, and install the terminal blocks to them. The A0J2(H) CPU module must be removed.

Replacing with AnS and CC-Link is also possible.

In addition to the Q Series, it is also possible to replace with the AnS (small type) Series and CC-Link FCN connector type DC I/O module.

Model list

<table>
<thead>
<tr>
<th>Discontinued model</th>
<th>Alternative model</th>
<th>Alternative model</th>
<th>Interface terminal</th>
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<tbody>
<tr>
<td>Product</td>
<td>Model</td>
<td>Alternative module</td>
<td>Interface terminal</td>
</tr>
<tr>
<td>Output module</td>
<td>A0J2-G540</td>
<td>A0J2-G540 (A0J2-G540)</td>
<td>A0J2-G540 (A0J2-G540)</td>
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<tr>
<td>I/O module</td>
<td>A0J2-G540</td>
<td>A0J2-G540 (A0J2-G540)</td>
<td>A0J2-G540 (A0J2-G540)</td>
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<tr>
<td>I/O module</td>
<td>A0J2-G540</td>
<td>A0J2-G540 (A0J2-G540)</td>
<td>A0J2-G540 (A0J2-G540)</td>
</tr>
<tr>
<td>I/O module</td>
<td>A0J2-G540</td>
<td>A0J2-G540 (A0J2-G540)</td>
<td>A0J2-G540 (A0J2-G540)</td>
</tr>
</tbody>
</table>

Available for T&D (To be announced)
**Upgrade Tool**  
(Manufactured by Mitsubishi Electric Engineering Co., Ltd.)

Replacing with the Q Series base unit using existing wiring.

The upgrade tool consists of two parts: a conversion adapter to connect existing wiring of A (large type) Series I/O modules to Q Series I/O modules; and a base adapter to mount Q Series base unit, including a supporting part to secure the bottom of the conversion adapters.

- Remove the entire A (large type) Series base unit and mount the base adapter in the same position. The existing mounting holes for the A (large type) Series base unit can be used to mount the base adapter, without having to make new installation holes.
- Mount a Q Series base unit on the base adapter.
- Attach the conversion adapters to the Q Series I/O modules.
- Remove the terminal blocks from the existing A (large type) Series I/O modules and mount the terminal blocks on the conversion adapters. (The existing wiring can be used without modification.)

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### MELSECNET/MINI-S3 I/O Module

**Wiring Conversion Adapter**

Replacing with the CC-Link system using existing MELSECNET/MINI-S3 I/O wiring.

**Install the wiring terminal block on the CC-Link module to eliminate the need for rewiring.**

(Example) Replacing AJ3STB2-16D with AJ6S8TB2-16D using a 34-pin conversion adapter

![Image of conversion adapter](image-url)

**Model list**

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<th>Discontinued model</th>
<th>Alternative model</th>
<th>Remarks (Restrictions)</th>
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<tr>
<td><strong>Product</strong></td>
<td><strong>Model</strong></td>
<td></td>
</tr>
<tr>
<td>Input module</td>
<td>AJ3STB1-16D</td>
<td>AJ6S8TB1-16D 26-pin conversion adapter&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>Input module</td>
<td>AJ3STB2-16D</td>
<td>AJ6S8TB2-16D 34-pin conversion adapter&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>Output module</td>
<td>AJ3STB1-16T</td>
<td>AJ6S8TB1-16T 26-pin conversion adapter &lt;sup&gt;1, 2&lt;/sup&gt;</td>
</tr>
</tbody>
</table>

<sup>1</sup> The total size is increased due to addition of the adapter to the alternative module.
<sup>2</sup> Additional wiring to CTU (External power supply for output) is required.

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**Please refer to the "Related Product" section on page 13 for details.**
Additional Support

Offering a variety of replacement support

Global FA Centers

"Mitsubishi Global FA Centers" are located throughout North America, Europe, and Asia to develop products, complying with international standards and to provide attentive services.

North American FA Center
MITSUBISHI ELECTRIC AUTOMATION INC.,
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Area covered: North America, Mexico

European FA Center
MITSUBISHI ELECTRIC CORPORATION SATUS, DE-69289 Darmstadt, Germany
Telephone: +49-6103-248-0 Fax: +49-6103-248-3179
Area covered: Europe

UK FA Center
MITSUBISHI ELECTRIC EUROPE B.V., UK BRANCH,
Customer Service Center,
Travellers Lane, West Malling, ME19 4HER, UK
Telephone: +44-1622-76200 Fax: +44-1622-762002
Area covered: UK, Ireland

Korean FA Center
MITSUBISHI ELECTRIC CORPORATION KOREA LTD.,
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Area covered: Korea

Hong Kong FA Center
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Area covered: Taiwan

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Telephone: +86-10-6518-6600 Fax: +86-10-6518-6030
Area covered: China

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Room 606, Great Ocean Building, No. 209 Shui Li Avenue,
Tiexi District, Tianjin 300143 China
Telephone: +86-22-28500000 Fax: +86-22-28500505
Area covered: China

ASEAN FA Center
MITSUBISHI ELECTRIC ASIA PTE LTD,
307 Alexandra Road #05-01/02,
Mitsubishi Electric Building Singapore, 169413
Telephone: +65-6742-2493 Fax: +65-6742-6236
Area covered: Southeast Asia, India

Related Catalog

Upgrade Tool
Convenient tool for upgrading the MELSEC-A Series to the MELSEC-Q Series
- Easy replacement with the MELSEC-Q Series
- Greatly reduced time and cost for wiring to I/O modules
- Existing PLC programs can be reused
- Also helpful for upgrading as a total system
# Additional Support

## Production Discontinuation Schedule

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<tr>
<td><strong>Spare parts</strong></td>
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</tbody>
</table>

- **Products to be discontinued**: Offer repair services (7 years)
  - Sep. 2006 Discontinue production
  - Sep. 2013 Discontinue repair services
- **Spare parts**: Offer repair services (7 years)
  - Sep. 2006 Start Accepting Orders
  - Sep. 2008 Discontinue production
  - Sep. 2015 Discontinue repair services

## Models to be discontinued

<table>
<thead>
<tr>
<th>Models to be discontinued</th>
<th>Production discontinuation</th>
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<tbody>
<tr>
<td>Large type A Series/Large type QnA Series</td>
<td>A/QnA (Large type) CPU module, I/O module, Special function module, Data link module (MELSECNET II, II B module etc.) End of Sep. 2006</td>
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<tr>
<td>A2C Series</td>
<td>A2C CPU module End of Sep. 2006</td>
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<tr>
<td>PC interface boards</td>
<td>MELSECNET (II), /B CPU module, MELSECNET (II), /B interface board End of Sep. 2008</td>
</tr>
<tr>
<td>Small type AnS Series</td>
<td>MELSECNET (II), /B Remote I/O module End of Sep. 2008</td>
</tr>
<tr>
<td>MELSECNET/Mini-S3</td>
<td>AnS (Small type) master module, I/O module End of Sep. 2008</td>
</tr>
<tr>
<td>AOJ2 (H) Series</td>
<td>AOJ2 (H) CPU module, Power supply module, I/O module, Special function module etc. End of Sep. 2008</td>
</tr>
</tbody>
</table>

**Note**: For models ending in ‘A’ or ‘B’, refer to the Technical Bulletin for more information.

## Exceptions

### Models to be continued

- Although most of the A/QnA (Large type) Series products are discontinued in September, 2006, production of the following modules will be continued.
  - Note: In accordance with the continuation of production, model names may be changed.

#### Power supply module

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Model Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>A/QnA (Large type) Series power supply module</td>
<td>A61P, A63P, A61RP</td>
</tr>
</tbody>
</table>

**Note**: If using power supplies other than the above, please purchase spare parts or consider switching over to one of the above models.

#### MELSECNET/10 network module

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Model Name</th>
</tr>
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<tbody>
<tr>
<td>A/QnA (Large type) Series MELSECNET/10 network module</td>
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<th>Remote I/O Station</th>
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<td>AJ71BR11</td>
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</table>

### Spare parts

- Production of certain models as spare parts will be extended until the end of September, 2008.
  - Please refer to the Technical Bulletin (799-0050F) for more information.
  - Note: In accordance with the continuation of production, model names may be changed.

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*Production of AnS Series master/local station data link modules (A1S/J71A/R21, A1S/J71A/R21, and A1S/J71A/T21B) will be continued.*
## Precautions for Choosing the Products

This catalog explains the typical features and functions of the Q series PLCs and does not provide restrictions or other information on usage and module combinations. When choosing the products, always check the detailed specifications, restrictions, etc., of the products in the Q series data book. When using the products, always read the user's manuals of the products. Mitsubishi will not be held liable for damage caused by factors found not to be the cause of Mitsubishi; machine damage or lost profits caused by faults in the Mitsubishi products; damage, secondary damage, accident compensation caused by special factors unpredictable by Mitsubishi; damages to products other than Mitsubishi products; and to other duties.

## For safe use

- To use the products given in this catalog properly, always read the "manuals" before starting to use them.
- This product has been manufactured as a general-purpose part for general industries, and has not been designed or manufactured to be incorporated in a device or system used in purposes related to human life,
- Before using the product for special purposes such as nuclear power, electric power, aerospace, medicine or passenger movement vehicles, consult with Mitsubishi.
- This product has been manufactured under strict quality control. However, when installing the product where major accidents or losses could occur if the product fails, install appropriate backup or failsafe functions in the system.

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