



No. HIME-T-P-0073

Databank-Technical Bulletin

Production Discontinuation of the FX2N series of PLCs

Thanks to the loyal support of our customers, the MELSEC-F series of PLCs has been and continues to be very successful. At this time we would like to announce that the production of the FX2N series PLC as well as certain expansion products will be ending in the upcoming future. This document will explain the terms for the discontinuation of production as well as give recommendations for substitute products.

Recommendations for substitute products are based upon specifications such as the number of inputs/outputs, program memory, and input/output type. Select substitute products based on the requirements of the individual system in question, which may differ from the product recommended here.

Additionally, evaluate the selection of substitute products based on the functions available, where certain products may fit individual systems better than others.

Consult with your local Mitsubishi Electric representative for further details on substitute products.

| Product | Order acceptance Production discontinu | | uation Repair acceptance | |
|-------------------------------------|--|------------------------|------------------------------|--|
| FX2N main units, expansion products | | | | |
| FX _{2N} interface blocks | Until September, 2012 END | September, 2012 END | Until September, 2019 END | |
| FX ₀ -10LDR | | 2012 LIVD | 2013 LIND | |

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1. Models for which production will be discontinued

The production of the FX_{2N} series main unit as well as selected expansion equipment and other related products will be discontinued. The production of FX_{2N} interface blocks FX_{2N}-16LNK-M and FX_{2N}-CNV-IF will also be discontinued. The production of the FX₀-10LDR will also be discontinued. Tables in section 4 "Reference Data" list applicable models.

2. Reasons for discontinuing production

Recently, electronic components of the FX2N PLC have become increasingly difficult to obtain. Part of the reason for this is that stricter process regulations have become the standard in recent years. With a limited amount of parts available, it becomes difficult to ensure maintenance expectations for the products. For this reason, production will be discontinued.

3. Switching to substitute products

For most products, there is an equivalent substitute product available that will match the functionality of the FX2N series product. To smooth the transition process, there will be a repair period of 7 years from discontinuation of production (plan is for September, 2019). However, this date is subject to change based upon the availability of replacement parts.

4. Reference Data

Reference Data 1: List of products for which production will be discontinued with

recommended substitutes, as well as a list of products for which production will not be discontinued.

[Cautions on Selection]

The following table lists products based on the number of inputs and outputs as well as the output type. For the recommended substitute products, confirm all specifications with the applicable product manuals. Take care to address the following points:

- If the program or the wiring needs to be changed based upon the configuration of expansion equipment.
- If, based upon the substitute product used, the entire system needs to be reconfigured.



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1. Products for which production will be discontinued, as well as recommended substitution models.

(1) FX2N series main unit

| Disc | continued Products | | Recommo | ended Substitute Model |
|------------------|-------------------------|-----|------------------|---------------------------------|
| Model Code | Model Name | 1 | Model Code | Model Name |
| 09M201 | FX2N-16MR-ES/UL | | 09\$202 | FX3U-16MR/ES |
| 09M203 | FX2N-16MT-ESS/UL | 1 | 09S219 | FX3U-16MT/ESS |
| 09M204 | FX2N-32MR-ES/UL | | 09S203 | FX3U-32MR/ES |
| 09M206 | FX2N-32MT-ESS/UL | 1 | 09S220 | FX3U-32MT/ESS |
| 09M207 | FX2N-48MR-ES/UL | 1 | 09S204 | FX3U-48MR/ES |
| 09M209 | FX2N-48MT-ESS/UL | 1 | 09S221 | FX3U-48MT/ESS |
| 09M210 | FX2N-64MR-ES/UL | 1 | 09S205 | FX3U-64MR/ES |
| 09M212 | FX2N-64MT-ESS/UL | 1 | 09S222 | FX3U-64MT/ESS |
| 09M213 | FX2N-80MR-ES/UL | 1 | 09S206 | FX3U-80MR/ES |
| 09M215 | FX2N-80MT-ESS/UL | | 09S223 | FX3U-80MT/ESS |
| 09M216 | FX2N-128MR-ES/UL | 1 | 09S229 | FX3U-128MR/ES |
| 09M218 | FX2N-128MT-ESS/UL | | 09S233 | FX3U-128MT/ESS |
| 09M250 | FX2N-16MR-DS | | 09S234 | FX3U-16MR/DS |
| 09M251 | FX2N-16MT-DSS | | 09\$244 | FX3U-16MT/DSS |
| 09M233 | FX2N-32MR-DS | 1 | 09S235 | FX3U-32MR/DS |
| 09M234 | FX2N-32MT-DSS | 1 | 09S245 | FX3U-32MT/DSS |
| 09M235 | FX2N-48MR-DS | 1 | 09S236 | FX3U-48MR/DS |
| 09M236 | FX2N-48MT-DSS | 1 | 09S246 | FX3U-48MT/DSS |
| 09M237 | FX2N-64MR-DS | | 09S237 | FX3U-64MR/DS |
| | FX2N-64MT-DSS | 1 | 09S237 09S247 | FX3U-64MT/DSS |
| 09M238 09M239 | FX2N-80MR-DS | | 09S247 09S238 | FX3U-80MR/DS |
| 09M240 | FX2N-80MT-DSS | 1 | 09S248 | FX3U-80MT/DSS |
| 09M271 | FX2N-16MT-E/UL | | 09S246 09S214 | FX3U-00INIT/DSS FX3U-16MT/ES |
| | FX2N-32MT-E/UL | 7 | 09S214 09S215 | FX3U-32MT/ES |
| 09M272 | | · ′ | | |
| 09M273 | FX2N-48MT-E/UL | - | 09S216 | FX3U-48MT/ES |
| 09M274 | FX2N-32MS-E/UL | - | 09S296 | FX3U-32MS/ES |
| 09M275 | FX2N-48MS-E/UL | | 09\$297 | FX3U-64MS/ES |
| 09M064 | FX2N-16MR-UA1/UL | | 09S294 | FX3U-32MR/UA1 |
| 09M066 | FX2N-32MR-UA1/UL | | 09S294 | FX3U-32MR/UA1 |
| 09M067 | FX2N-48MR-UA1/UL | | 09\$295 | FX3U-64MR/UA1 |
| 09M068 | FX2N-64MR-UA1/UL | | 09\$295 | FX3U-64MR/UA1 |
| 09M001 | FX2N-16MR | | 09\$202 | FX3U-16MR/ES |
| 09M002 | FX2N-16MS | | 09S296 | FX3U-32MS/ES |
| 09M003 | FX2N-16MT | | 09S214 | FX3U-16MT/ES |
| 09M007 | FX ₂ N-32MR | | 09S203 | FX3U-32MR/ES |
| 09M008 | FX2N-32MS | | 09S296 | FX3U-32MS/ES |
| 09M009 | FX ₂ N-32MT | | 09S215 | FX3U-32MT/ES |
| 09M010 | FX2N-48MR | | 09S204 | FX3U-48MR/ES |
| 09M011 | FX ₂ N-48MS | | 09S297 | FX3U-64MS/ES |
| 09M012 | FX ₂ N-48MT | | 09S216 | FX3U-48MT/ES |
| 09M013 | FX ₂ N-64MR | | 09S205 | FX3U-64MR/ES |
| 09M014 | FX ₂ N-64MS | | 09S297 | FX3U-64MS/ES |
| 09M015 | FX ₂ N-64MT | | 09S217 | FX3U-64MT/ES |
| 09M016 | FX ₂ N-80MR | | 09S206 | FX3U-80MR/ES |
| | | | 09S297 | FX3U-64MS/ES |
| 09M017 | FX ₂ N-80MS | | +09M082 | +FX2N-8EX |
| | | | +09M043 | +FX2N-16EYS |
| 09M018 | FX ₂ N-80MT |] | 09S218 | FX3U-80MT/ES |
| 09M019 | FX ₂ N-128MR | | 09S229 | FX3U-128MR/ES |
| 00101010 | | | | |



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| Disc | | Recomm | ended Substitute Model | |
|------------|--------------------------|--------|------------------------|--------------|
| Model Code | Model Name | 1 | Model Code | Model Name |
| 09M026 | FX ₂ N-32MR-D | | 09S235 | FX3U-32MR/DS |
| 09M027 | 09M027 FX2N-32MT-D | | 09S240 | FX3U-32MT/DS |
| 09M028 | FX ₂ N-48MR-D | 1 4 | 09S236 | FX3U-48MR/DS |
| 09M029 | FX ₂ N-48MT-D | | 09S241 | FX3U-48MT/DS |
| 09M030 | FX2N-64MR-D | 7 | 09S237 | FX3U-64MR/DS |
| 09M031 | FX2N-64MT-D |] ′ | 09S242 | FX3U-64MT/DS |
| 09M032 | FX2N-80MR-D | 1 | 09S238 | FX3U-80MR/DS |
| 09M033 | FX2N-80MT-D | | 09S243 | FX3U-80MT/DS |

(2) FX2N series expansion equipment

| Discontinued Products | | | | | | |
|---|------------------------|--------|-------------------------|--|--|--|
| Model Code Model Name Model Code Model Name | | | | | | |
| 09M301 | FX2N-16SW | 09M304 | FX2N-64SW | | | |
| 09M302 | FX ₂ N-32SW | 09M305 | FX2N-80SW | | | |
| 09M303 | FX ₂ N-48SW | 09M306 | FX ₂ N-128SW | | | |

The production of FX2N-**SW models will be ending along with that of the main unit, in September 2012. There is no substitute product available.

(3) FX2N series interface equipment

| Discontinued Pro | oducts | | Recommended Substi | tution Product |
|------------------|--------------|---|---------------------------|----------------|
| Model Code | Model Name | | Model Code | Model Name |
| 09M135 | FX2N-16LNK-M | | 09M187 | FX2N-64CL-M |
| 09M111 | FX2N-CNV-IF | 7 | No recommended substitute | |
| 09M159 | FX2N-16CCL-M | , | 09S363 | FX3U-16CCL-M |

The production of these interface products will be ending along with that of the main unit, in September 2012.

(4) Other expansion equipment

| • • | <u> </u> | | | |
|-----------------------|------------|---|-------------|------------------------|
| Discontinued Products | | 4 | Recommended | d Substitution Product |
| Model Code | Model Name | | Model Code | Model Name |
| 09K870 | FX0-10LDR | 7 | 09S349 | FX-30P |

The production of the FX₀-10LDR will end in September 2012.

⁻For the FX2N-16LNK-M, it is recommended that the system be investigated to determine if the FX2N-64CL-M would be a suitable substitute.

⁻For any FX series, the FX-30P can handle data transfer.

⁻For the FX1s, FX1n, FX3 series, the FX-30P can be used or dedicated memory cassettes can perform data transfer.



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2. Products that will be continue to be produced

(1) FX_{2N} series

| Model Code | Model Name | Model Code | Model Name | Model Code | Model Name | Model Code | Model Name |
|---------------|------------------|---------------|---------------------------|---------------|------------------------|---------------|-------------------|
| 09M036 | FX2N-32ER | 09M087 | FX ₂ N-8EYT-H | 09M115 | FX ₂ N-1PG | 09M219 | FX2N-32ER-ES/UL |
| 09M037 | FX2N-32ES | 09M042 | FX ₂ N-16EYR | 09M163 | FX ₂ N-10PG | 09M220 | FX2N-32ET-ESS/UL |
| 09M038 | FX2N-32ET | 09M044 | FX2N-16EYT | 09M156 | FX2N-10GM | 09M221 | FX2N-48ER-ES/UL |
| 09M046 | FX2N-48ER | 09M051 | FX ₂ N-16EYT-C | 09M157 | FX2N-20GM | 09M222 | FX2N-48ET-ESS/UL |
| 09M048 | FX2N-48ET | 09M043 | FX2N-16EYS | 09M117 | FX2N-232IF | 09M241 | FX2N-48ER-DS |
| 09M054 | FX2N-48ER-D | 09M144 | FX ₂ N-2AD | 09M136 | FX2N-32CCL | 09M242 | FX2N-48ET-DSS |
| 09M055 | FX2N-48ET-D | 09M113 | FX ₂ N-4AD | 09M187 | FX2N-64CL-M | 09M089 | FX2N-8ER-ES/UL |
| 09M070 | FX2N-48ER-UA1/UL | 09M161 | FX2N-8AD | 09M110 | FX2N-CNV-BC | 09M088 | FX2N-8EX-ES/UL |
| 09M084 | FX2N-8ER | 09M143 | FX ₂ N-2DA | 09M101 | FX2N-CNV-BD | 09M226 | FX2N-16EX-ES/UL |
| 09M082 | FX2N-8EX | 09M114 | FX ₂ N-4DA | 09M102 | FX2N-8AV-BD | 09M090 | FX2N-8EYR-ES/UL |
| 09M083 | FX2N-8EX-UA1/UL | 09M192 | FX2N-5A | 09M105 | FX2N-422-BD | 09M091 | FX2N-8EYT-ESS/UL |
| 09M041 | FX2N-16EX | 09M162 | FX2N-2LC | 09M103 | FX2N-232-BD | 09M223 | FX2N-16EYR-ES/UL |
| 09M049 | FX2N-16EX-C | 09M119 | FX ₂ N-4AD-TC | 09M104 | FX2N-485-BD | 09M225 | FX2N-16EYT-ESS/UL |
| 09M050 | FX2N-16EXL-C | 09M118 | FX ₂ N-4AD-PT | 09M172 | FX2N-ROM-E1 | 09M121 | FX2N-1PG-E |
| 09M085 | FX2N-8EYR | 09M116 | FX ₂ N-1HC | | | 09M127 | FX2N-1RM-E-SET |
| 09M086 | FX2N-8EYT | 09M123 | FX2N-1RM-SET | | | | |

(2) Dedicated FX2N series main unit connectable expansion equipment

| Model Code | Model Name | Model Code | Model Name | Model Code | Model Name |
|------------|--------------|------------|------------|------------|------------|
| 09K041 | FX-EEPROM-4 | 09K631 | FXon-30EC | 09D062 | F2-40BL |
| 09K042 | FX-EEPROM-8 | 09K261 | FX0N-65EC | | |
| 09M112 | FX-EEPROM-16 | 09K264 | FX0N-3A | | |



UNITS:mm(inches)

Issued by:Mitsubishi Electric Corporation-Himeji Works Document issue: Ver B,15/07/12 Relevant Models: MELSEC-F series

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Reference Data 2: Points regarding substitution of products

This section pertains to hardware related aspects when switching from the FX2N series to the FX30 series.

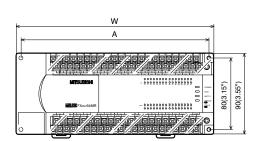
1. Exterior Dimensions

Differences: The height is different by 1mm.

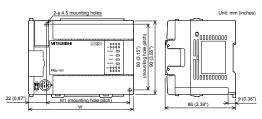
The W1/A measurement for screw placement is different.

■FX2N series main unit

| UNIT | UNIT | | | mm ± 0.2 | inches ± 0.01 |
|------------------|----------|----------|------------|-------------|------------------|
| | | A = W-10 | 0mm(0.40") | | Н |
| FX2N-16M□ | 2-Φ 4.5 | 120 | 4.73 | | |
| FX2N-32M□ | mounting | 440 | 5.50 | | |
| FX2N-32E□ | holes | 140 | 5.52 | | i |
| FX2N-48M□, | | | | | |
| FX2N-32MR-UA1/UL | | 172 | 6.78 | | |
| FX2N-48E□ | | | | 87 | 3.43 |
| FX2N-64M□, | 4-Ф 4.5 | | | 07 | 0.40 |
| FX2N-48MR-UA1/UL | mounting | 210 | 8.27 | | |
| FX2N-48ER-UA1/UL | holes | | | | |
| FX2N-80M□, | | 275 | 10.83 | | |
| FX2N-64MR-UA1/UL | | 2/3 | 10.63 | | |
| FX2N-128M□ | | 340 | 13.39 | | |



■FX3∪ series main unit



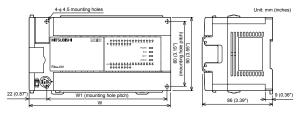
| Series | Model name | W: mm (inches) | W1: mm (inches) | |
|------------|---------------------------|----------------|-----------------|--|
| | FX3U-16MR/ES | (| (| |
| | FX3U-16MT/ES | | | |
| EVal. 16M | FX3U-16MT/ESS | 120 (5 12") | 102 (4 06") | |
| FX3∪-16M□ | FX3U-16MR/DS | 130 (5.12") | 103 (4.06") | |
| | FX3U-16MT/DS | | | |
| | FX3U-16MT/DSS | | | |
| | FX ₃ U-32MR/ES | | | |
| | FX ₃ U-32MT/ES | | | |
| | FX3U-32MT/ESS | | | |
| FX₃u-32M□ | FX3U-32MS/ES | 150 (5.91") | 123 (4.85") | |
| FA30-32IVI | FX ₃ U-32MR/DS | | | |
| | FX3U-32MT/DS | | | |
| | FX3U-32MT/DSS | | | |
| | FX3U-32MR/UA1*1 | 182 (7.17") | 155 (6.11") | |

- *1. FX3∪-32MR/UA1 uses 4-Ф4.5 mounting holes. The position of the mounting hole is equivalent to FX3U-48M
- 1) Accessories

Dust proof protection sheet Manual supplied with product

2) Installation

- 35 mm (1.38") wide DIN rail or Direct installation (with screws) (M4 x 2)



| Series | Model name | W: mm (inches) | W1: mm (inches) | |
|------------|----------------|----------------|-----------------|--|
| | FX3U-48MR/ES | | | |
| | FX3U-48MT/ES | | | |
| FX₃u-48M□ | FX3U-48MT/ESS | 182 (7.17") | 155 (6.11") | |
| FA3U-40IVI | FX3U-48MR/DS | 102 (7.17) | 155 (6.11) | |
| | FX3U-48MT/DS | | | |
| | FX3U-48MT/DSS | | | |
| | FX3u-64MR/ES | | | |
| | FX3U-64MT/ES | | | |
| | FX3U-64MT/ESS | | | |
| FX₃∪-64M□ | FX3U-64MS/ES | 220 (8.67") | 193 (7.60") | |
| FA30-04IVI | FX3u-64MR/DS | | | |
| | FX3U-64MT/DS | | | |
| | FX3U-64MT/DSS | | | |
| | FX3U-64MR/UA1 | 285 (11.23") | 258 (10.16") | |
| | FX3U-80MR/ES | | | |
| | FX3U-80MT/ES | | | |
| FX₃u-80M□ | FX3U-80MT/ESS | 285 (11.23") | 258 (10.16") | |
| FA3U-6UIVI | FX3U-80MR/DS | 203 (11.23) | 230 (10.10) | |
| | FX3U-80MT/DS | | | |
| | FX3U-80MT/DSS | | | |
| | FX3U-128MR/ES | | | |
| FX3∪-128M□ | FX3U-128MT/ES | 350 (13.78") | 323 (12.72") | |
| | FX3U-128MT/ESS | | | |

- 1) Accessories Dust proof protection sheet Manual supplied with product
- 35 mm (1.38") wide DIN rail or Direct installation (with screws) (M4 x 4)

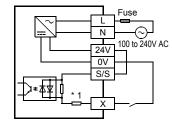


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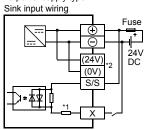
2. Sink/source terminal wiring

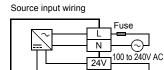
The inputs of the FX3U series require that appropriate sink/source wiring be carried out for applicable situations

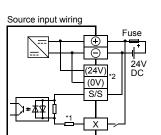
AC power supply type Sink input wiring



DC power supply type







- *1. Input impedance *2. Do not connect (0V) and (24V) terminals.

3. European terminal block cable size

Differences: The size of the connector of the RS-485 communication cable shown below is different between the FX2N or FX2NC series product and the FX3U series product.

| | Wire size when inserting 1 cable | Wire size when inserting 2 cables | Wire ferrule (wire size) | Tightening torque | Insulation sheath* thickness |
|-------------------------------|----------------------------------|-----------------------------------|--------------------------------|-------------------|------------------------------|
| FX2N-485-BD | AWG26 ~ | - AWG16 | Unavailable | 0.6N·m | 6mm |
| FX2NC-485ADP | AWG26 ∼ AWG16 | AWG26 ∼ AWG20 | Unavailable | 0.4 ∼ 0.5N•m | 8mm |
| FX3U-485-BD FX3U-485ADP-MB | AWG22 ~ AWG20 | AWG22 | Available (AWG22 \sim AWG20) | 0.22 ∼ 0.25N•m | 9mm |

^{*:} The insulation sheath thickness dimension applies when wiring is connected using wire ferrule. For further information regarding the differences between products, refer to the FX User's Manual: Data Communication Edition.



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4. Device Comparison () indicates there is a difference between the FX2N and FX3U

| Cassette equipped Cassette equipped | | Device | | FX2N series | | FX3u series | |
|---|----------|---------|---|--------------------|--------------|--------------------|---------------|
| Maximary Latched [Variable] M500 ~ M1023 524 devices M500 ~ M1023 524 devices M500 ~ M1023 524 devices M5000 ~ M524 M500 ~ M525 S6 devices M5000 ~ M525 S12 devices M5000 ~ M525 M5000 ~ M5 | | Туре | Use | Number | Total | Number | Total |
| Relay | | | General use [Variable] | $M0 \sim M499$ | 500 devices | $M0 \sim M499$ | 500 devices |
| Felay Latched Fixed M1024 × M3071 2048 devices M1024 × M3000 | М | | Latched [Variable] | M500 ∼ M1023 | 524 devices | M500 ∼ M1023 | 524 devices |
| Sample | | | Latched [Fixed] | M1024 ~ M3071 | 2048 devices | M1024 ~ M7679 | 6656 devices |
| State | | | Special Use | M8000 ∼ M8255 | 256 devices | M8000 ~ M8511 | 512 devices |
| State | | State | , | S0 ∼ S9 | 10 devices | S0 ∼ S9 | 10 devices |
| Announce use (Latched) S900 ~ S999 100 devices S900 ~ S999 100 devices Latched [Fixed] | | | General use [Variable] | S10 ~ S499 | 490 devices | S10 ~ S499 | 490 devices |
| Variable Latched (Fixed) | s | | Latched [Variable] | S500 ~ S899 | 400 devices | S500 ∼ S899 | 400 devices |
| Table | | | ` ' | S900 ~ S999 | 100 devices | S900 ~ S999 | 100 devices |
| Timer | | | Latched [Fixed] | _ | _ | S1000 ~ S4095 | 3096 devices |
| Timer | | | 100ms | T0 ∼ T191 | 192 devices | T0 ∼ T191 | 192 devices |
| Time retentive T246 ~ T249 4 devices T246 ~ T249 4 devices T250 ~ T255 6 devices T256 ~ T511 256 devices T256 ~ T251 T256 ~ T511 T256 ~ T255 T256 ~ T251 ~ T255 T256 ~ T256 ~ T256 T256 ~ T256 ~ T256 ~ T256 T256 ~ T256 ~ T256 ~ T256 T | | | | | 8 devices | T192 ~ T199 | 8 devices |
| 100ms retentive T250 ~ T255 6 devices T250 ~ T255 6 devices T256 ~ T511 256 devices T256 ~ T511 | Т | Timer | 10ms | T200 ~ T245 | 46 devices | T200 ∼ T245 | 46 devices |
| 100ms retentive T250 ~ T255 6 devices T250 ~ T255 6 devices T256 ~ T511 256 devices T256 ~ T511 | | | 1ms retentive | | | | |
| Counter Cou | | | 100ms retentive | T250 ~ T255 | 6 devices | T250 ~ T255 | 6 devices |
| Counter Cou | | | | _ | _ | | |
| Counter | | Counter | | C0 ~ C99 | 100 devices | C0 ~ C99 | 100 devices |
| Capital Use bi-directional counter (32 bit) [Variable] Capital Ca | | | ' ' | C100 ~ C199 | 100 devices | C100 ~ C199 | 100 devices |
| Counter (32 bit) [Variable] C 1-phase 1-counting input bi-directional (32 bit) [Variable] +10kHz 2 devices 10kHz 2 devices 2 d | | | | C200 ~ C219 | 20 devices | C200 ~ C219 | 20 devices |
| bi-directional (32 bit)[Variable] | | | | C220 ~ C234 | 15 devices | C220 ~ C234 | 15 devices |
| Speed counter Speed counte | С | speed | bi-directional | 60kHz 2 devices | 6 devices | 100kHz 6 devices+ | 8 devices |
| Data register Index registers (16 bit) Vo ~ V7, Z0 ~ Z7 Index registers (16 bit) Vo ~ V7, Z0 ~ Z7 Index registers (16 bit) Vo ~ V7, Z0 ~ Z7 | | | bi-directional | 60kHz 1 devices or | 2 devices | 100kHz 2 devicesor | 2 devices |
| Data register Data registers (16 bit) Data | | | bi-directional (32 bit)[Variable] | | 2 devices | 50kHz 2 devicesor | 2 devices |
| Data register Pointer | | 1 | (16 bit)[Variable] | D0 ∼ D199 | 200 devices | D0 ∼ D199 | 200 devices |
| Data register Special use (16 bit) Index registers (16 bit) Index registers (16 bit) Extension registers (16 bit) Extension file registers (16 bit) Extension registers (16 bi | | | | | | | |
| register register register (16 bit) $V0 \sim V7, Z0 \sim Z7$ 16 devices $V0 \sim V7, Z0 \sim Z7$ 17 devices $V0 \sim V7, Z0 \sim Z7$ 18 devices $V0 \sim V7, Z0 \sim Z7$ 16 devices $V0 \sim V7, Z0 \sim Z7$ 17 devices $V0 \sim V7, Z0 \sim Z7$ 18 devices $V0 \sim V7, Z0 \sim Z7$ 19 devices | | | ` ' | | | | |
| register Index registers (16 bit) $V0 \sim V7, Z0 \sim Z7$ 16 devices $V0 \sim V7, Z0 \sim Z7$ 16 devices Extension registers (16 bit) — R0 \sim R32767 32768 devices Extension file registers (16 bit) — Extension file registers (16 bit) — R0 \sim R32767 (when memory cassette equipped) 32768 devices Input interrupt Input interrupt Input delay interrupt — Input delay interrupt Input delay interrupt Input Input Interrupt Input Interrupt Input Interrupt Input Input Interrupt Input Input Interrupt Input In | ח | | | | | | |
| Extension file registers (16 bit) | <u> </u> | | | V0 ∼ V7, Z0 ∼ Z7 | 16 devices | | |
| Extension file registers | | | Extension registers (16 bit) | _ | _ | | 32768 devices |
| Pointer For JUMP, CALL use P0 \sim P127 128 devices P0 \sim P4095 4096 devices Input interrupt I000 \sim I500 6 devices I000 \sim I500 Total: 6 Input delay interrupt — — 1000 \sim I500 devices Timer interrupt I600 \sim I800 3 devices | | | _ | _ | _ | (when memory | 32768 devices |
| Pointer Input interrupt $100 - 150$ 6 devices $10 - 150$ Total: 6 devices Input delay interrupt $ 100 - 150$ devices Imput delay interrupt $160 - 180$ 3 devices $160 - 180$ 3 devices | | Pointer | For JUMP, CALL use | P0 ∼ P127 | 128 devices | | 4096 devices |
| P Pointer Input delay interrupt — — I0□□ ~ I5□□ devices Timer interrupt I6□□ ~ I8□□ 3 devices I6□□ ~ I8□□ 3 devices | Р | | | | | | |
| Timer interrupt $ 6 \square \sim 8 \square \>$ 3 devices $ 6 \square \sim 8 \square \>$ 3 devices | | | | _ | _ | | |
| | | | | I6□□ ~ I8□□ | 3 devices | | |
| I I TOTALISM TOTAL | | | Counter interrupt | I010 ∼ I060 | 6 devices | I010 ∼ I060 | 6 devices |



Databank-Technical Bulletin

Revised History

| Date | Revision | Description |
|--------|----------|---|
| 3/2011 | A | First Edition |
| 7/2012 | В | The model it became impossible to production continue is deleted. |

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