

Product Discontinuation

Programmable controller

CJ1W-EIP21/ETN21**CJ1W-NC[][]3****CJ1G-CPU4[]P****Recommended Replacement**

Programmable controller

CJ1W-EIP21Sor **NX102-9000****CJ1W-NC[][]4**or **NX-PG[][][]****No recommended replacement****[Final order entry date]**

The end of March, 2025

[Date of The Last Shipping]

The end of March, 2026

[Scheduled date of maintenance close]

The end of March, 2032

[Caution on recommended replacement]

There are two recommended alternatives: CJ series and NX series.

When you replace with CJ series, please check the replacement guide or relative manuals before designing the system.

When you replace with NX series, please refer to relative manuals of the NX series before designing the system.

[Difference from discontinued product]**CJ1W-EIP21/ETN21**

| Recommended replacement Model | Body Color | Dimensions | Wire connection | Mounting Dimensions | Characteristics | Operation ratings | Operation methods |
|-------------------------------|------------|------------|-----------------|---------------------|-----------------|-------------------|-------------------|
| CJ1W-EIP21S | ** | ** | ** | ** | * | * | * |
| NX102-9000 | - | - | - | - | - | - | - |

CJ1W-NC[][]3

| Recommended replacement Model | Body Color | Dimensions | Wire connection | Mounting Dimensions | Characteristics | Operation ratings | Operation methods |
|-------------------------------|------------|------------|-----------------|---------------------|-----------------|-------------------|-------------------|
| CJ1W-NC[][]4 | ** | - | - | - | - | - | - |
| NX-PG[][][] | - | - | - | - | - | - | - |

** : Compatible

* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

[Product Discontinuation and recommended replacement]**CJ1W-EIP21/ETN21**

| Product discontinuation | Recommended replacement1 | Recommended replacement2 |
|-------------------------|--------------------------|--------------------------|
| CJ1W-EIP21 | CJ1W-EIP21S | NX102-9000 |
| CJ1W-ETN21 | CJ1W-EIP21S | NX102-9000 |

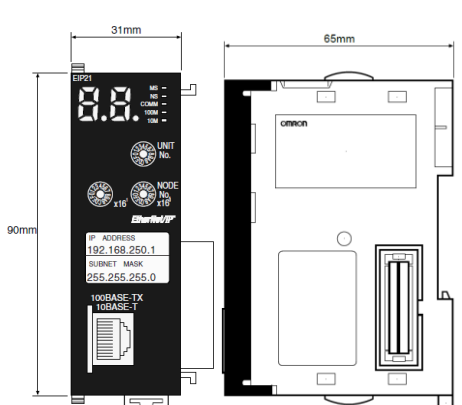
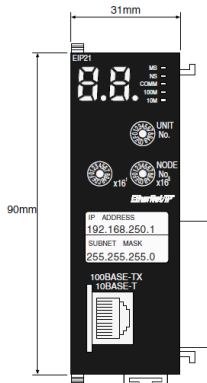
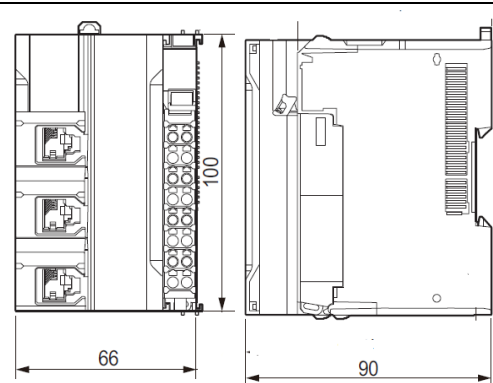
CJ1W-NC[][]3

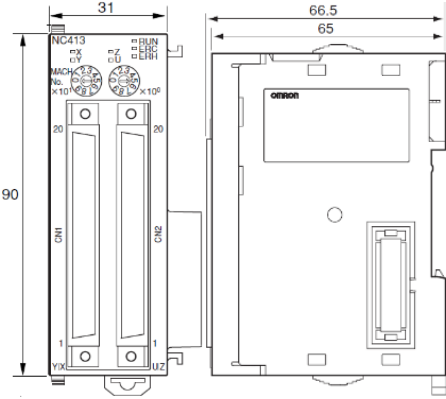
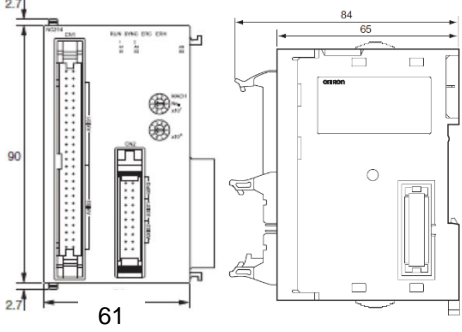
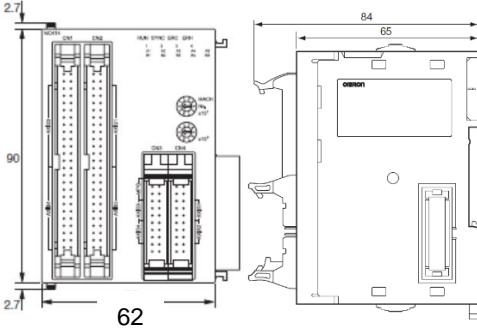
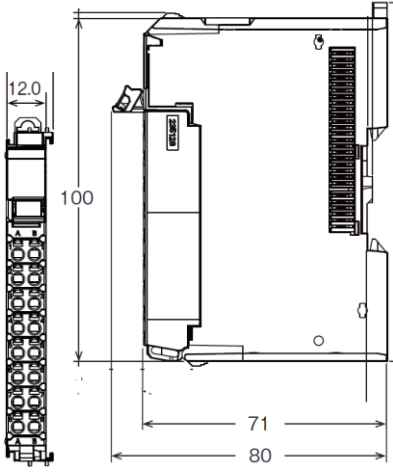
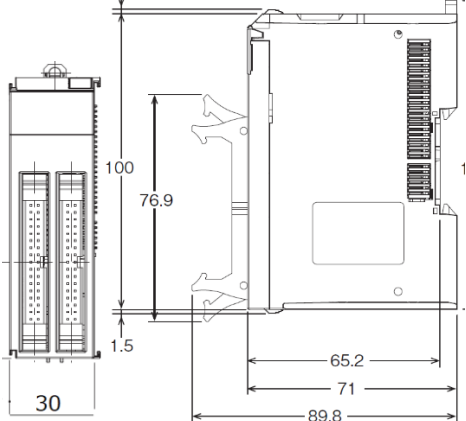
| Product discontinuation | Recommended replacement1 | Recommended replacement2 |
|-------------------------|--------------------------|--------------------------|
| CJ1W-NC113 | CJ1W-NC214 | NX-PG0112 |
| CJ1W-NC133 | CJ1W-NC234 | NX-PG0232-5 |
| CJ1W-NC213 | CJ1W-NC214 | NX-PG0112 x 2 |
| CJ1W-NC233 | CJ1W-NC214 | NX-PG0232-5 |
| CJ1W-NC413 | CJ1W-NC414 | NX-PG0112 x 4 |
| CJ1W-NC433 | CJ1W-NC434 | NX-PG0232-5 |

CJ1G-CPU4[P]

| Product discontinuation | Recommended replacement |
|-------------------------|----------------------------|
| CJ1G-CPU42P | No recommended replacement |
| CJ1G-CPU43P | No recommended replacement |
| CJ1G-CPU44P | No recommended replacement |
| CJ1G-CPU45P | No recommended replacement |

[Dimensions]

| Product discontinuation CJ1W-EIP21/ETN21 | Recommended replacement CJ1W-EIP21S |
|--|--|
|  <p>Diagram showing the dimensions of the CJ1W-EIP21/ETN21 unit. The front view shows a width of 31mm and a height of 90mm. The back view shows a width of 65mm. The unit features a display, status LEDs, and network ports.</p> |  <p>Diagram showing the dimensions of the CJ1W-EIP21S unit. The front view shows a width of 31mm and a height of 90mm. The unit features a display, status LEDs, and network ports.</p> |
| |  <p>Diagram showing the dimensions of the NX102-9000 unit. The front view shows a width of 66mm and a height of 100mm. The back view shows a width of 90mm. The unit features a display, status LEDs, and network ports.</p> |

| Product discontinuation CJ1W-NC[][]3 | Recommended replacement CJ1W-NC[][]4 |
|---|--|
|  <p>Technical drawing of CJ1W-NC2[][]4. The drawing shows front and back views with dimensions: height 90, width 31, and depth 66.5. The front view shows terminal blocks labeled YX, UZ, CN1, and CN2. The back view shows the mounting panel with an OMRON logo and a terminal block.</p> | <p>CJ1W-NC2[][]4</p>  <p>Technical drawing of CJ1W-NC2[][]4. The drawing shows front and back views with dimensions: height 90, width 61, and depth 65. The front view shows terminal blocks with labels like M+, M-, MNC, MNC+, MNC-, and MNC+/-.</p> <p>CJ1W-NC4[][]4</p>  <p>Technical drawing of CJ1W-NC4[][]4. The drawing shows front and back views with dimensions: height 90, width 62, and depth 65. The front view shows terminal blocks with labels like M+, M-, MNC, MNC+, MNC-, and MNC+/-.</p> |
| | <p>Recommended replacement NX-PG[][][]</p> <p>NX-PG0112</p>  <p>Technical drawing of NX-PG0112. The drawing shows front and back views with dimensions: height 100, width 71, depth 80, and a specific component height of 12.0. The front view shows a terminal block with labels YX and UZ.</p> <p>NX-PG0232-5</p>  <p>Technical drawing of NX-PG0232-5. The drawing shows front and back views with dimensions: height 100, width 76.9, depth 89.8, and a specific component height of 1.5. The front view shows a terminal block with labels YX and UZ. A width of 30 is also indicated for the terminal block section.</p> |

[Characteristics]

It is shown in list that are compared replaced CJ series with discontinuation target in this document.

When you replace with NX series, please refer to the relevant manual.

| Item | Product discontinuation CJ1W-EIP21 | Recommended replacement CJ1W-EIP21S |
|--|---|--|
| Weight | 94 g max. | 91 g max. |
| Current consumption | 0.41 A at 5 VDC | 0.65 A at 5 VDC |
| Applicable Controllers | CJ Series/CP1H Series/NJ Series | CJ2M/CJ2H |
| Security function | Not available | Available |
| Socket services | Not available | Available |
| Online connection from CX-One via EtherNet/IP port with secure communications | Not available | Available |

| Item | Product discontinuation CJ1W-ETN21 | Recommended replacement CJ1W-EIP21S |
|--|---|--|
| Weight | 94 g max. | 91 g max. |
| Current consumption | 0.37 A at 5 VDC | 0.6 A at 5 VDC |
| Applicable Controllers | CJ Series/CP1H Series/NJ Series | CJ2M/CJ2H |
| Security function | Not available | Available |
| Online connection from CX-One via EtherNet/IP port with secure communications | Not available | Available |
| Tag data link communications service | Not available | Available |
| CIP message communications service | Not available | Available |
| Mail send/receive | Available | Not available |
| Web functions | Available | Not available |
| Monitoring Unit Control Bits with CX-Programmer | Possible | Not possible |

| Item | | Product discontinuation CJ1W-NC[]3 | Recommended replacement CJ1W-NC[]4 |
|--|-------------------------|--|--|
| Number of Control axis | | 1,2 or 4-axis | 2 or 4-axis |
| Occupied machine number | | 1 or 2-axis PCU: Occupies machine No. 1 4-axis PCU: Occupies machine No. 2 | 2 or 4-axis PCU: Occupies machine No. 2 |
| Command position range | | -1,073,741,823 to 1,073,741,823 pulses | -2,147,483,648 to 2,147,483,647 pulses |
| Speed command | | Set it to 1 to 500,000 pps in units of 1 pps. | With position control: 1 to 2,147,483,647 command unit/s With speed control: -2,147,483,648 to 2,147,483,647 command unit/s |
| Control function | Manual operation | JOG, Origin Search, Origin Return | JOG, Inching, Origin Search, Origin Return and MPG |
| | Direct operation | Absolute movement, relative movement, speed control and interrupt feeding | Absolute movement, relative movement and speed control (You can specify an interrupt constant-pitch feed for each control.) |
| | Memory operation | Positioning function: linear interpolation, interrupt feeding End pattern: Individual, automatic or continuous pattern | Positioning function: Independent PTP, linear interpolation, circular interpolation, speed control, interrupt feeding End pattern: Individual, automatic or continuous pattern |
| Override | | Set it to 1% to 999% in units of 1%. | Set it to 0.01% to 500.00% in units of 0.01%. |
| Software limit range | | -1,073,741,823 to 1,073,741,823 pulses | -2,147,483,647 to 2,147,483,646 pulses |
| Time between the issuance of a start command from the ladder program and a pulse output | | Minimum of 2 ms or less | 0.1 ms or less (During high-speed PTP start) 1 to 2 ms or less (During direct operation start) |
| External I/O connector | | 40 pins/2 axes (Servo Drive I/O and external control I/O) * Install 2 sets of the above for 4-axis PCU. | 50 pins/2 axes (Servo Drive I/O) 20 pins/2 axes (external control I/O) * Install 2 sets of each of the above for 4-axis PCU. |
| Software on the computer side | | CX-Position | CX-Programmer |

[Operation methods]

Refer to the following manuals for the operation procedure.

<CPU unit, EtherNet/IP and Ethernet unit>

In case of replacement for CJ series

CPU Unit User's Manual (Hardware) (Cat. No. W472)

CPU Unit User's Manual (Software) (Cat. No. W473)

EtherNet/IP and Ethernet Units -> Enhanced Security Units Replacement Guide (Cat. No. P152)

CS/CJ-series EtherNet/IP Units Operation Manual (Cat. No. W465)

CX-Programmer Ver9.[] Operation Manual (Cat. No. W446)

In case of replacement for NX series

CPU Unit User's Manual (Hardware) (Cat. No. W593)

CPU Unit User's Manual (Software) (Cat. No. W501)

CPU Unit Built in EtherNet/IP Port User's Manual (Cat. No. W506)

Sysmac Studio Version 1 Operation Manual (Cat. No. W504)

Machine Automation Controller Data Reference Manual (Cat. No. W525)

<Position Control Unit>

In case of replacement for CJ series

Position Control Units Operation Manual (Cat. No. W477)

In case of replacement for NX series

Position Interface Units User's Manual (Cat. No. W524)

Machine Automation Controller Data Reference Manual (Cat. No. W525)

Specifications and prices in this product news are as of the issue date and are subject to change without notice.

Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.