

Product Discontinuation Notices

Programmable Controllers

Issue Date
March 3, 2014

No. 2014025CE

Discontinuation Notice of SYSMAC CS-Series MECHATROLINK-II compatible Motion Control unit CJ1W-MCH71.

Product Discontinuation

CJ-series Motion Control Unit with
MECHATROLINK-II interface



Model CJ1W-MCH71



Recommended Replacement

NJ-Series
NJ501 CPU Units

Model NJ501-1400

[Discontinuation date]

The end of March, 2015

[Caution on recommended replacement]

Color of recommended replacement is different.

Dimension is different.

Wiring connections are different. (Need to change from MECHATROLINK-II to EtherCAT)

There are some restrictions on functionality.

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
NJ501-1400	--	--	--	--	*	*	--

** : Compatible

* : The change is a little/Almost compatible



-- : Not compatible

- : No corresponding specification

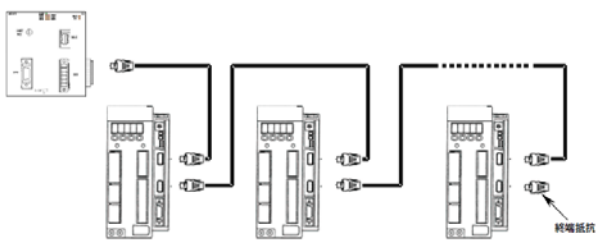
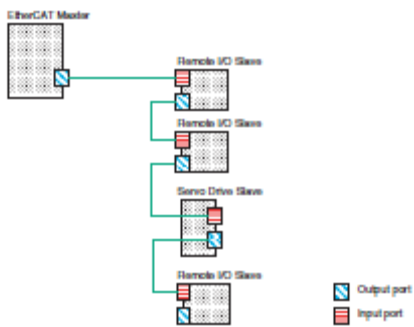
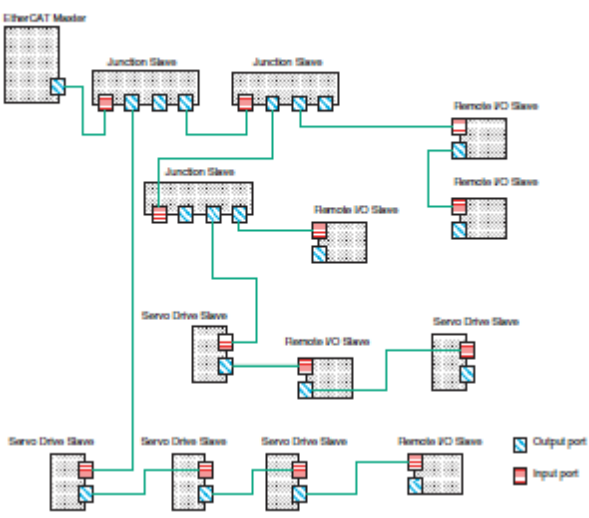
[Product Discontinuation and recommended replacement]

Product discontinuation	Recommended replacement
CJ1W-MCH71	NJ501-1400

[Body color]

<p>Product discontinuation Model CJ1W-MCH71</p>	<p>Recommendable replacement Model NJ501-1400</p>
<p>Ivory</p> 	<p>Black</p> 

[Wire connection]

<p>Product discontinuation Model CJ1W-MCH71</p>	<p>Recommendable replacement Model NJ501-1400</p>
<p>TMECHATROLINK-II compatible</p> 	<p>EtherCAT on NJ501</p> <ul style="list-style-type: none"> • No Branching  <ul style="list-style-type: none"> • Branching 

[Mounting dimensions]

Product discontinuation Model CJ1W-MCH71	Recommendable replacement Model NJ501-1400
Same with CJ1 series	DIN rail

[Dimensions]

Product discontinuation Model CJ1W-MCH71	Recommendable replacement Model NJ501-1400

[Characteristics]

Item	Product discontinuation Model CJ1W-MCH71	Recommendable replacement Model NJ501-1400
Power Supply Voltage	<ul style="list-style-type: none"> • 5 VDC (from Backplane) • 24 VDC (from external power supply) 	<ul style="list-style-type: none"> • 100 to 240 VAC (external power supply) • 24 to 24 VDC (external power supply)
Voltage fluctuation tolerance	<ul style="list-style-type: none"> • 4.5 to 5.5 VDC (from Backplane) • 21.6 to 26.4 VDC (from external power supply) 	<ul style="list-style-type: none"> • 85 to 264 VAC (AC power supply type) • 19.2 to 28.8 VDC (DC power supply type)
Internal current consumption	5 VDC 0.6 A max.	5 VDC 1.90 A max.
Weight(Connectors excluded)	210 g max.	550 g max. (End cover included)
Safety standards	UL, CSA, C-TICK, EC compliant	cULus, EC compliant, NK, LR
Attitude	At 2,000 m elevation or lower	At 2,000 m elevation or lower
Controlled Devices	MECHATROLINK II below supported <ul style="list-style-type: none"> • SMARTSTEP Junior servo drive • Various I/O unit (Yasukawa) 	EtherCAT below supported <ul style="list-style-type: none"> • G5 series servo drive • EtherCAT slaves
Program language	Dedicated motion control language	LD, ST
Control method	Position control, Speed control, Torque control	Position control, Speed control, Torque control
Baud rate	10 Mbps	100 Mbps
Number of controlled axes	32 axes max. Physical axes, Virtual axes: 30 axes max. Dedicated for virtual axes: 2 axes	64 axes/ 32 axes/ 16 axes Physical axes, Virtual axes, encoder axes, Virtual encoder axes
Control period	1, 2, 3, 4, 6, 8 ms	Primary task: 500µs/1000µs/2000µs/4000µs
Minimum setting unit	Mm, inch, deg, pulse	Pulse, mm, µm, nm, degree, inch

Item	Product discontinuation Model CJ1W-MCH71	Recommendable replacement Model NJ501-1400
Linear interpolation	○ (8 axes max.)	○ (4 axes max./ axes group)
Circular interpolation	○ (2 axes max.)	○ (2 axes max./ axes group)
Time specified positioning	○	×
Target position change function	○	○
Interrupt feeding	○	○
Electronic Shaft	○	○
Travel distance super impose	○	○
Traverse function	○	×
Latch function	○	○
Link operation	○	○
Trailing synchronous operation	○	○
Speed command	○	○
Torque command	○	○
Override	○	○
Acceleration/deceleration curve	Trapezoidal or S-shape	Trapezoidal or S-shape
Origin search	○	○
Backlash compensation	○	○
Teaching	○	×
Arithmetic operation	○	○

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.