

## INDUSTRIAL COMPONENT DATA

# NJ501-5300-1 NX010243E NJ50153001 OMRON Sysmac NJ5 CNC CPU, 20MB memory, built-in EtherCAT (16 servo axes, i..

Brand: OMRON | Manufacturer Part Number: NJ501-5300-1



|                 |                |
|-----------------|----------------|
| Manufacturer    | OMRON          |
| MPN / Reference | NJ501-5300-1   |
| Catalog number  | NJ50153001     |
| Category        | PLC CPU-module |
| Minimum order   | 1 Pcs          |
| Document ID     | EO-314651317F  |
| Generated       | 2026-08-04     |

## Product Overview

Sysmac NJ5 CNC CPU, 20MB memory, built-in EtherCAT (16 servo axes, in total 192 EtherCAT nodes) and EtherNet/IP. USB license not included.

## STRUCTURED PRODUCT DATA

## Technical Specifications

No structured technical attributes are currently available. Submit an RFQ for technical review.

## Classification & Catalog Path

Catalog path OMRON > Integrated Automation > Machine Controllers NJ5

## Additional Product Information

Controller functionalityCNC, Motion control, Sequence controlMax. number of synchronous axes32Max. number of axes (incl. virtual)32Max. number of robots0Primary task cycle time0.5 msProgram memory20 MBVariables memory6 MBCommunication port(s)EtherCAT Master, EtherNet/IP, USBCommunication option(s)CAN, CompoNet Master, DeviceNet Master, DeviceNet Slave, EtherCAT Slave, MODBUS Master, MODBUS Slave, PROFIBUS DP Master, PROFIBUS DP Slave, PROFINET Master, Serial RS-232C, Serial RS-422, Serial RS-485Max. number of remote I/O nodes192I/O systemCJ I/O BusMax. number of expansion units40Product Weight (unpacked)665.8 g  
ETIM for 702310 PLC's (EC000236)  
Feature Name  
Feature Value  
Model (EF000010)  
Modular  
SIL according to IEC 61508 (EF009889)  
None  
Voltage type (supply voltage) (EF002991)

AC/DC

Explosion safety category for gas (EF003997)

None

Explosion safety category for dust (EF003998)

None

Type of memory (EF002996)

FLASH

Radio standard UMTS (EF008525)

No

Supporting protocol for EtherCAT (EF017564)

Yes

Appendant operation agent (Ex ib) (EF004142)

No

Supporting protocol for other bus systems (EF003062)

Yes

Supporting protocol for SERCOS (EF006657)

No

IO link master (EF007298)

No

Rack-assembly possible (EF007018)

No

Supporting protocol for KNX (EF003055)

No

Supporting protocol for LON (EF003017)

No

Supporting protocol for SUCONET (EF003060)

No

Supporting protocol for IEC 60870 (EF016069)

No

Supporting protocol for EtherNet/IP (EF007521)

Yes

Supporting protocol for DNP3 (EF016068)

No

Ra...

## REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send OMRON / NJ501-5300-1 with the required quantity to [info@electricaonline.com](mailto:info@electricaonline.com) or use [electricaonline.com/request-quote](https://electricaonline.com/request-quote).

### GLOBAL OFFICES

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