

INDUSTRIAL COMPONENT DATA

NJ501-1400 NX010003C NJ5011400 OMRON NJ501 Machine Controller 32 Axes

Brand: OMRON | Manufacturer Part Number: NJ501-1400



Manufacturer	OMRON
MPN / Reference	NJ501-1400
Catalog number	NJ5011400
Category	PLC CPU-module
Minimum order	1 Pcs
Document ID	EO-2FFC69703D
Generated	2026-07-29

Product Overview

NJ501 Machine Controller 32 Axes

Sysmac NJ5 CPU, 20 mB memory, built-in EtherCAT (32 servo axes, in total 192 EtherCAT nodes) and EtherNet/IP

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 functionalityMotion control, OPC-UA, 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 Height (unpacked)96 mmProduct Width (unpacked)90 mmProduct Depth (unpacked)150 mmProduct Weight (unpacked)550 g
ETIM for 355310 PLC's (EC000236)
Feature Name
Feature Value
Performance level according to EN ISO 13849-1 (EF007399)
Level a
Model (EF000010)
Modular

SIL according to IEC 61508 (EF009889)

None

Voltage type (supply voltage) (EF002991)

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 (EF003...

REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send OMRON / NJ501-1400 with the required quantity to info@electricaonline.com or use electricaonline.com/request-quote.

GLOBAL OFFICES

Germany: Lise-Meitner-Straße 13, 89081 Ulm | USA: 16225 Park Ten Pl #500, Houston, TX 77084 | UAE: HDS Business Centre Tower, Cluster M, 33rd Floor, JLT, Dubai

Catalog-generated document. Product names, marks and specifications belong to their respective owners. Verify safety-critical, compatibility and certification requirements against the manufacturer documentation before purchase or installation.