



NX102-9020

Sysmac NX1 Modular CPU with Database Connectivity, 5MB program and 33.5MB data memory, built-in EtherCAT (0 servo axes, 4 PTP axes, total 64 EtherCAT nodes), 2 Ethernet ports (OPC-UA and EtherNet/IP)

Specifications

Controller functionality	DB connection, OPC-UA, Position control, Sequence control
Max. number of synchronous axes	0
Max. number of PTP axes	4
Max. number of axes (incl. virtual)	4
Primary task cycle time	1 ms
Program memory	5 MB
Variables memory	33.5 MB
Communication port(s)	EtherCAT Master, EtherNet/IP, Ethernet TCP/IP
Communication option(s)	Serial RS-232C, Serial RS-422, Serial RS-485
Max. number of remote I/O nodes	64
I/O system	NX I/O Bus
Max. number of expansion units	32
Product Height (unpacked)	100 mm
Product Width (unpacked)	66 mm
Product Depth (unpacked)	100 mm
Product Weight (unpacked)	470 g

Accessories



CJ1W-BAT01

Battery for CJ1M PLCs



GX-JC03

3-port EtherCAT Junction module, 24 VDC power supply



GX-JC06

6-port EtherCAT Junction module, 24 VDC power supply



GX-JC06-H

6-port EtherCAT Junction module, 24 VDC power supply, with node switches

HMC-SD493

SD memory card, 4 GB



W4S1-05D

5-port enhanced Ethernet switch

Spare parts

NX-END02

Spare part - End plate for NX1P controller

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Data validity check Brochure

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EAC Mark removal Discontinuation Notice

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High-speed inspection Brochure

EN PDF 319 KB



Machine Safety Solution Brochure

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NJ-series -[EtherCAT]- ORIENTAL MOTOR aSTEP DC Multi-Axis Drive (AZDxA-KED)

Connection Guide

EN PDF 3.99 MB



NJ-series -[EtherNet/IP]- SMC AMS-S Series

Connection Guide

EN PDF 2.23 MB



NJ-series -[Ethernet TCP/IP]- Hioki LCR Meter (IM3536)

Connection Guide

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NJ/NX-Series CPU Unit Motion Control

Users Manual

EN PDF 19.6 MB



NJ/NX-Series CPU Unit Software

Users Manual

EN PDF 18.9 MB



NJ/NX-Series Database Connection CPU Units

Users Manual

EN PDF 4.16 MB



NJ/NX-Series Instructions

Reference Manual

EN PDF 16.3 MB



NJ/NX-Series Motion Control Instructions

Reference Manual

EN PDF 7.21 MB



NJ/NX-Series OPC UA CPU Units

Users Manual

EN PDF 4.64 MB



NJ/NX-series - [EtherCAT]- CKD ABSODEX driver (AX9000TS/TH-U5)

Connection Guide

EN PDF 1.73 MB



NJ/NX-series - [EtherCAT]- Denso Wave RC9 Robot

Connection Guide

EN PDF 2.72 MB



NJ/NX-series - [EtherCAT]- Festo CPX- AP-I

Connection Guide

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NJ/NX-series - [EtherCAT]- Festo MSE6-E2M

Connection Guide

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NJ/NX-series - [EtherCAT]- HMS Anybus X-gateway ABX

Connection Guide

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NJ/NX-series - [EtherCAT]- Hitachi ADV-Series AC Servo Drives

Connection Guide

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NJ/NX-series - [EtherCAT]- Inficon gauge (BPG402-SE)

Connection Guide

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NJ/NX-series - [EtherCAT]- Kashiwama Dry Vacuum Pump (E- CAT01 1ch)

Connection Guide

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NJ/NX-series - [EtherCAT]- Kashiwama Dry Vacuum Pump (E- CAT02)

Connection Guide

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NJ/NX-series - [EtherCAT]- Kawasaki F- series Robot Controller F60

Connection Guide

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NJ/NX-series - [EtherCAT]- NX-ECC + NX-ILM400 -[IO-Link]- CKD Sensor (PPX series)

Connection Guide

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NJ/NX-series - [EtherCAT]- NX-ECC + NX-ILM400 -[IO-Link]- CKD Sensor (WFC series)

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NJ/NX-series - [EtherCAT]- NX-ECC + NX-ILM400 -[IO-Link]- CKD WFK2 Flow sensor

Connection Guide

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NJ/NX-series - [EtherCAT]- NX-ECC + NX-ILM400 -[IO-Link]- MTS Sensors (E-Series)

Connection Guide

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NJ/NX-series - [EtherCAT]- NX-ECC + NX-ILM400 -[IO-Link]- PATLITE Beacon (NE-IL)

Connection Guide

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NJ/NX-series - [EtherCAT]- NX-ECC + NX-ILM400 -[IO-Link]- PATLITE Tower (LR6-IL)

Connection Guide

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NJ/NX-series - [EtherCAT]- NX-ECC + NX-ILM400 -[IO-Link]- SMC (ISA3-xxx)

Connection Guide

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NJ/NX-series - [EtherCAT]- NX-ECC + NX-ILM400 -[IO-Link]- SMC (xSE20Bx-L(-M/-P)- x)

Connection Guide

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NJ/NX-series - [EtherCAT]- NX-ECC + NX-ILM400 -[IO-Link]- SMC ITVx000/-IO*

Connection Guide

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NJ/NX-series - [EtherCAT]- NX-ECC + NX-ILM400 -[IO-Link]- SMC Servo 24VDC (JXCL1)

Connection Guide

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NJ/NX-series - [EtherCAT]- NX-ECC + NX-ILM400 -[IO-Link]- Schmalz Ejector (SCPSi)

Connection Guide

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NJ/NX-series - [EtherCAT]- NX-ECC + NX-ILM400 -[IO-Link]- ifm (O5D10x/O5D15x)

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NJ/NX-series - [EtherCAT]- NX-ECC + NX-ILM400 -[IO-Link]- ifm (PN7x94)

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NJ/NX-series - [EtherCAT]- NX-ECC + NX-ILM400 -[IO-Link]- ifm (TN24xx)

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NJ/NX-series - [EtherCAT]- NX-ECC + NX-ILM400 -[IO-Link]- ifm TR7439 Pt100/1000

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NJ/NX-series - [EtherCAT]- Nidec Sankyo S-FLAG II Series AC Servo (DB6xx41)

Connection Guide

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NJ/NX-series - [EtherCAT]- NittoSeiko SD600T driver controller

Connection Guide

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NJ/NX-series - [EtherCAT]- ORIENTAL MOTOR Stepper Motor (AZ-series)

Connection Guide

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NJ/NX-series - [EtherCAT]- Oriental Motor Alpha STEP AZ series

Connection Guide

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NJ/NX-series - [EtherCAT]- SANYO DENKI AC Servo SANMOTION R 3E MODEL TYPE S

Connection Guide

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NJ/NX-series - [EtherCAT]- SANYO DENKI AC Servo SANMOTION R ADVANCED MODEL TYPE F

Connection Guide

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NJ/NX-series - [EtherCAT]- SHIMADZU Power Unit for Turbo Molecular Pump (TMP)

Connection Guide

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NJ/NX-series - [EtherCAT]- SICK Absolute Encoder (AFS60/AFM60)

Connection Guide

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NJ/NX-series - [EtherCAT]- Schmalz Compact Terminal (SCTSi-ECT)

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NJ/NX-series - [EtherCAT]- Unipulse Weighing Indicator (FC400-ECT)

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NJ/NX-series - [EtherCAT]- Weidmüller Remote I/O System (u- remote IP20)

Connection Guide

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NJ/NX-series - [EtherCAT]- YASKAWA Sigma 7-series

Connection Guide

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NJ/NX-series -[EtherNet TCP/IP]- HIOKI Battery HiTESTER (BT356)[A]

Connection Guide

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NJ/NX-series - [EtherNet/IP]- Balluff BNI EIP-50x-105-Z015

Connection Guide

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Connection Guide

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NJ/NX-series - [EtherNet/IP]- HMS Anybus Communicator

Connection Guide

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NJ/NX-series - [EtherNet/IP]- HMS Anybus X-gateway

Connection Guide

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NJ/NX-series - [EtherNet/IP]- Hilscher netTAP NT100 Gateway (NT 100-RE-DN)

Connection Guide

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NJ/NX-series - [EtherNet/IP]- IAI RCON system & MCON / MSCON / MSEP Controller

Connection Guide

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NJ/NX-series - [EtherNet/IP]- KOGANEI Manifold Solenoid Valve (F Series)

Connection Guide

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NJ/NX-series - [EtherNet/IP]- Magnescale Digital Gauge (MG80-EI)

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NJ/NX-series - [EtherNet/IP]- Nordson ProBlue Adhesive Melters

Connection Guide

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NJ/NX-series - [EtherNet/IP]- ORIENTAL MOTOR Alpha STEP Compatible Driver (AZD- xEP)

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NJ/NX-series - [EtherNet/IP]- SMC Solenoid Valve (SI Unit EX260-SEN#)

Connection Guide

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NJ/NX-series - [EtherNet/IP]- Schmalz K.K. Compact Terminal (SCTSi-EIP)

Connection Guide

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NJ/NX-series - [EtherNet/IP]- Unipulse FC400-EIP

Connection Guide

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NJ/NX-series - [EtherNet/IP]- Unipulse FS2000-EIP

Connection Guide

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NJ/NX-series - [EtherNet/IP]- ifm IO- Link master (AL1322)

Connection Guide

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NJ/NX-series - [EtherNet/IP]- ifm IO- Link master (AL1920)

Connection Guide

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NJ/NX-series Machine Automation Controller

Brochure

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NJ/NX-series Machine Automation Controller Database Connection CPU Unit

Brochure

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NJ/NX/NY-series Sysmac Library User's Manual for Safety System Monitor Library Users Manual

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Connection Guide

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NX-series -[RS-232C]- V320-F, V420-F, V430-F Code Readers

Connection Guide

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NX1 Machine Automation Controller Datasheet

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NX1 Machine Automation Controller Brochure

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NX1-series + NX-ILM400-[IO-Link]- SMC D-MP# Actuator Position Sensor

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NX1-series + NX-ILM400-[IO-Link]- SMC Digital Flow Switch

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NX102 CPU Unit Technical Manual

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OEN Sample and Library files

Connection Guide

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Omron GX-JC0x-x EtherCAT Junction Box EtherCAT ESI file

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Redundancy and Motion Safety

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