



NX1P2-9024DT

NX1P programmable logic controller built-in EtherNet/IP™ up to 32 connections, EtherCAT® up to 0 synchronous axes

Specifications

Primary task cycle time	2 ms
Program memory	1.5 MB
Variables memory	2 MB
Max. number of synchronous axes	0
Max. number of PTP axes	4
Number of digital inputs	14
Input type	PNP/NPN
Number of digital outputs	10
Output type	NPN
Number of serial option boards	1
Max. number of expansion units	8
Max. number of remote I/O nodes	16
Communication port(s)	EtherCAT Master, EtherNet/IP, Ethernet TCP/IP
Number of Ethernet ports	2
Number of USB ports	0
Communication option(s)	Serial RS-232C, Serial RS-422, Serial RS-485
Real-time clock	✓
Supply voltage DC	20.4-28.8 V
Product Height (unpacked)	100 mm
Product Width (unpacked)	124 mm
Product Depth (unpacked)	71 mm
Product Weight (unpacked)	590 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
	NX-PF0730	NX I/O power feed unit, 5-24 V DC input, 8 terminals, 10A, screwless push-in connector, 12mm wide
	NX1W-ADB21	Sysmac NX1P Analog I/O screwless option board, 2 x analog inputs 0 to 10 V, resolution 1/4000 or 0 to 20 mA, resolution 1:2000
	NX1W-CIF01	Sysmac NX1P RS-232C screwless (15 m max.) serial communication option board
	NX1W-CIF11	Sysmac NX1P RS422/485 screwless (50 m max.) serial communication option board
	NX1W-CIF12	Sysmac NX1P RS422/485 screwless (isolated 500 m max.) serial communication option board
	NX1W-DAB21V	Sysmac NX1P Analog I/O screwless option board, 2 x analog outputs 0 to 10 V, resolution 1:4000
	NX1W-MAB221	Sysmac NX1P Analog I/O screwless option board, 2 x analog inputs 0 to 10 V, resolution 1:4000 or 0 to 20 mA, resolution 1:2000, 2 x analog outputs 0 to 10 V, resolution 1:4000



SYSMAC-SE201L

Sysmac Studio license. 1 Single user.



W4S1-05D

5-port enhanced Ethernet switch



XS6W-6LSZH8SS100CM-Y

Ethernet patch cable, F/UTP, Cat.6A, LSZH (Yellow), 1 m



XS6W-6LSZH8SS200CM-B

Ethernet patch cable, F/UTP, Cat.6A, LSZH (Blue), 2 m



XS6W-6LSZH8SS200CM-Y

Ethernet patch cable, F/UTP, Cat.6A, LSZH (Yellow), 2 m



XS6W-6LSZH8SS20CM-Y

Ethernet patch cable, F/UTP, Cat.6A, LSZH (Yellow), 0.2 m



XS6W-6LSZH8SS500CM-Y

Ethernet patch cable, F/UTP, Cat.6A, LSZH (Yellow), 5 m



XS6W-6LSZH8SS50CM-Y

Ethernet patch cable, F/UTP, Cat.6A, LSZH (Yellow), 0.5 m

Spare parts

NX-END02

Spare part - End plate for NX-series controllers

Related products



NX I/O Series
Modular IP20 IOs

Downloads

CAD Library



**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

EN PDF 2.13 MB



**NJ/NX-Series CPU Unit
Built-in EtherCAT Port**
Users Manual

EN PDF 16.4 MB



**NJ/NX-Series CPU Unit
Built-in EtherNet/IP Port**
Users Manual

EN PDF 17.1 MB



**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
Instructions**
Reference Manual

EN PDF 16.3 MB



**NJ/NX-Series Motion
Control Instructions**
Reference Manual

EN PDF 7.21 MB



NJ/NX-Series Troubleshooting Manual Users Manual

EN PDF 10.2 MB



NJ/NX-Series for Motion Control Getting Started Guide

EN PDF 18.1 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

EN PDF 1.37 MB



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

EN PDF 1.6 MB



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

EN PDF 1.96 MB



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

EN ZIP 4.29 MB



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

EN PDF 1.22 MB



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

EN PDF 1.59 MB



NJ/NX-series - [EtherCAT]- Kashiya Dry Vacuum Pump (E- CAT02) Connection Guide

EN PDF 1.61 MB



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

EN PDF 2.32 MB



NJ/NX-series - [EtherCAT]- Mitutoyo EJ-102N Linear Gage Counter Connection Guide

EN PDF 1.63 MB



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

EN PDF 2.43 MB



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

EN PDF 2.75 MB



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

EN PDF 2.09 MB



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

EN PDF 2.4 MB



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

EN PDF 2.02 MB



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

EN PDF 2.08 MB



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

EN PDF 2.61 MB



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

EN PDF 2.13 MB



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

EN PDF 1.89 MB



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

EN PDF 2.23 MB



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

EN PDF 2.4 MB



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

Connection Guide

EN PDF 2.42 MB



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

Connection Guide

EN PDF 2.72 MB



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

Connection Guide

EN PDF 2.74 MB



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

Connection Guide

EN PDF 2.43 MB



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

Connection Guide

EN PDF 2.65 MB



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

Connection Guide

EN PDF 2.18 MB



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

Connection Guide

EN PDF 2.89 MB



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

Connection Guide

EN PDF 3.47 MB



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

Connection Guide

EN PDF 3.08 MB



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

Connection Guide

EN PDF 3.61 MB



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

Connection Guide

EN PDF 1.29 MB



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

Connection Guide

EN PDF 1.52 MB



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

Connection Guide

EN PDF 1.33 MB



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

Connection Guide

EN PDF 1.72 MB



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

Connection Guide

EN PDF 1.8 MB



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

Connection Guide

EN ZIP 3.77 MB



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

Connection Guide

EN PDF 2.27 MB



NJ/NX-series - [EtherNet/IP]- Balluff BNI EIP-50x-105-2015

Connection Guide

EN PDF 3.35 MB



NJ/NX-series - [EtherNet/IP]- CKD ABSODEX Driver (AX9000TS/TH-U6)

Connection Guide

EN PDF 1.71 MB



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

Connection Guide

EN PDF 1.51 MB



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

Connection Guide

EN PDF 1.79 MB



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

Connection Guide

EN PDF 3.5 MB



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

Connection Guide

EN PDF 1.9 MB



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

Connection Guide

EN PDF 2.43 MB



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

Connection Guide

EN PDF 1.84 MB



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

Connection Guide

EN PDF 2.61 MB



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

Connection Guide

EN PDF 1.82 MB



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

Connection Guide

EN PDF 1.65 MB



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

Connection Guide

EN PDF 1.69 MB



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

Connection Guide

EN PDF 2.26 MB



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

Connection Guide

EN PDF 3.38 MB



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

Connection Guide

EN PDF 3.18 MB



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

Connection Guide

EN PDF 3.07 MB



NX-series -[Ethernet TCP/IP]- V330-F, V430-F Code Readers

Connection Guide

EN PDF 2.89 MB



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

Connection Guide

EN PDF 2.48 MB



NX-series NX1P2 CPU Unit Built-in I/O and Option Board

Users Manual

EN PDF 6.4 MB



NX-series NX1P2 CPU Unit Hardware

Users Manual

EN PDF 7.15 MB



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

Connection Guide

EN PDF 1.88 MB



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

Connection Guide

EN PDF 2.58 MB



NX1P Machine Automation Controller

Datasheet

EN PDF 4.75 MB



NX1P Machine Automation Controller

Brochure

EN PDF 1.66 MB



NX1P-L Brochure

EN PDF 2.55 MB



NX1P-Series Machine Controller

Datasheet

EN PDF 1.7 MB



NX1P2/NX1W-Series

Instruction Sheet

EN PDF 635 KB



OEN Sample and Library files

Connection Guide

EN ZIP 9.25 MB



Omron GX-JC0x-x EtherCAT Junction Box

EtherCAT ESI file

EN ZIP 3.36 KB



Panel Building Brochure

EN PDF 3.11 MB



SYSMAC-XR020 MQTT Communications Library

Flyer

EN PDF 621 KB



Sysmac Catalogue

EN PDF 43.5 MB



Sysmac: A Fully Integrated Platform Brochure

EN PDF 11.8 MB

TERMS OF WEBSITE USE

This PDF document was created from the European OMRON Industrial Automation website on 15 September, 2026. Click here for [terms of use](#).

OMRON

INDUSTRIAL AUTOMATION | [INDUSTRIAL.OMRON.EU](https://www.industrial.omron.eu)