



NX701-1600

Sysmac NX7 CPU, 80MB memory, built-in EtherCAT (128 servo axes, in total 512 EtherCAT nodes) and 2 EtherNet/IP ports

Specifications

Controller functionality	Motion control, OPC-UA, Sequence control
Primary task cycle time	0.125 ms
Program memory	80 MB
Variables memory	260 MB
Max. number of synchronous axes	128
Max. number of axes (incl. virtual)	128
Communication port(s)	EtherCAT Master, EtherNet/IP, Ethernet TCP/IP
Communication option(s)	None
Max. number of remote I/O nodes	512
I/O system	NX I/O Bus
Max. number of expansion units	0
Product Height (unpacked)	100 mm
Product Width (unpacked)	132 mm
Product Depth (unpacked)	100 mm
Product Weight (unpacked)	880 g

Accessories



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-SD492

4 GB SD memory card



NX-PA9001

Sysmac NX power supply unit, 100 to 240 VAC, 90 W, "RUN" output relay



NX-PD7001

Sysmac NX power supply unit, 24 VDC, 70 W, "RUN" output relay



W4S1-05D

5-port enhanced Ethernet switch

Spare parts



CJ1W-BAT01

Battery for CJ1M PLCs



NX-END01

Replacement end cover for NX I/O series

Downloads



AI Machine Automation Controller Brochure

EN PDF 5.18 MB



Data validity check Brochure

EN PDF 202 KB



FDK CR14250SE Battery Safety Datasheet

EN PDF 147 KB



High-speed inspection Brochure

EN PDF 319 KB



Machine Safety Solution Brochure

EN PDF 2.86 MB



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

EN PDF 3.99 MB



NJ/NX Series Brochure

EN PDF 4.18 MB



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

EN PDF 17.5 MB



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

EN PDF 19.3 MB



NJ/NX-Series CPU Unit Motion Control Users Manual

EN PDF 19.8 MB



NJ/NX-Series CPU Unit Software Users Manual

EN PDF 24.2 MB



NJ/NX-Series Instructions Reference Manual

EN PDF 11.6 MB



NJ/NX-Series Motion Control Instructions Reference Manual

EN PDF 7.13 MB



NJ/NX-Series OPC UA CPU Units Users Manual

EN PDF 3.82 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]- 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]- Kashiwama Dry Vacuum Pump (E- CAT01 1ch) Connection Guide

EN PDF 1.59 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]- ORIENTAL MOTOR Stepper Motor (AZ-series)

Connection Guide

EN PDF 2.89 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]- Weidmüller Remote I/O System (u- remote IP20)

Connection Guide

EN PDF 1.8 MB



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

Connection Guide

EN ZIP 3.77 MB



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

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]- Hilscher netTAP NT100 Gateway (NT 100-RE-DN)

Connection Guide

EN PDF 3.5 MB



NJ/NX-series - [EtherNet/IP]- IAI RCON system & MCON / MCON / 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]- Nordson ProBlue Adhesive Melters

Connection Guide

EN PDF 2.61 MB



NJ/NX-series - [EtherNet/IP]- ORIENTAL MOTOR αSTEP 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]- 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



NJ/NX-series Machine Automation Controller

Brochure

EN PDF 1.81 MB



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

Brochure

EN PDF 1.37 MB



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

Users Manual

EN PDF 922 KB



NX-Series CPU Unit Hardware

Users Manual

EN PDF 4.3 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



NX7 Machine Automation Controller

Datasheet

EN PDF 2.43 MB



Quality gate for each process

Brochure

EN PDF 167 KB



Sysmac Catalogue

EN PDF 43.5 MB



Sysmac: A Fully Integrated Platform

Brochure

EN PDF 10.2 MB

TERMS OF WEBSITE USE

This PDF document was created from the European OMRON Industrial Automation website on 18 October, 2023. Click here for [terms of use](#).

OMRON

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