



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-SD493

SD memory card, 4 GB



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 139 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-series -[EtherNet/IP]- SMC AMS-S Series Connection Guide

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

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NJ/NX Series Brochure

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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 OPC UA CPU Units Users Manual

EN PDF 4.64 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

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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

EN PDF 1.22 MB



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

Connection Guide

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

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)

Connection Guide

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

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

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

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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)

Connection Guide

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

Connection Guide

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

Connection Guide

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

Connection Guide

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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)

Connection Guide

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

Connection Guide

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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-105-2015

Connection Guide

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

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)

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

Connection Guide

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

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

Connection Guide

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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)

Connection Guide

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

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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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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 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

EN PDF 922 KB



NX-Series CPU Unit Hardware

Users Manual

EN PDF 4.57 MB



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

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

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NX7 Machine Automation Controller

Datasheet

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Quality gate for each process

Brochure

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Sysmac Catalogue

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Sysmac: A Fully Integrated Platform

Brochure

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