



NX701-Z600

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

Specifications

Controller functionality	AI control, Motion control, 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

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 Controller Standard Software Operation Manual

EN PDF 6.07 MB



AI Machine Automation Controller Brochure

EN PDF 5.18 MB



AI Predictive Maintenance Library Users Manual

EN PDF 2.13 MB



Artificial Intelligence Machine Automation Controller Users Manual

EN PDF 6.87 MB



Data validity check Brochure

EN PDF 202 KB



FDK CR-series cylindrical Battery Safety Datasheet

EN PDF 133 KB



High-speed inspection Brochure

EN PDF 319 KB



Machine Safety Solution Brochure

EN PDF 2.86 MB



NJ/NX Series Brochure

EN PDF 4.18 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

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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

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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

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

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

Connection Guide

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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

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

Connection Guide

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

Connection Guide

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

Connection Guide

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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]-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

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/NY AI Machine Controller

Datasheet

EN PDF 971 KB



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

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