



NX1P2-1040DT

Symac NX1P CPU with 40 Digital Transistor I/O (NPN), 1.5 MB memory, EtherCAT (2 servo axes, 4 PTP axes, 16 EtherCAT nodes), EtherNet/IP and 2 serial option ports

Specifications

Primary task cycle time	2 ms
Program memory	1.5 MB
Variables memory	2 MB
Max. number of synchronous axes	2
Max. number of PTP axes	4
Number of digital inputs	24
Input type	PNP/NPN
Number of digital outputs	16
Output type	NPN
Number of serial option boards	2
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)	148 mm
Product Depth (unpacked)	71 mm
Product Weight (unpacked)	650 g



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-6LSZH8SS200CM-B

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



XS6W-6LSZH8SS500CM-Y

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

Spare parts

NX-END02

Spare part - End plate for NX1P controller

Related products



NX I/O Series

Performance and practicality
for machine control

Downloads

[CAD Library](#)



**EAC Mark removal
Discontinuation Notice**

EN PDF 221 KB



**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 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
Troubleshooting Manual**

Users Manual

EN PDF 17 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

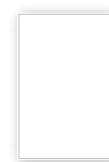
EN PDF 1.6 MB



**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]- 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]- Nidex
Sanyo 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-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]- 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 / 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]- 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 7.26 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
Brochure

EN PDF 1.77 MB



NX1P Machine Automation Controller
Datasheet

EN PDF 4.31 MB



NX1P-L
Brochure

EN PDF 14.7 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



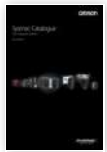
Panel Building
Brochure

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