

INDUSTRIAL COMPONENT DATA

NX701-Z700 NX010174R NX701Z700 OMRON Sysmac NX7 AI Controller, 80 MB of memory, EtherCAT (256 axes, 512 node..

Brand: OMRON | Manufacturer Part Number: NX701-Z700



Manufacturer	OMRON
MPN / Reference	NX701-Z700
Catalog number	NX701Z700
Category	PLC CPU-module
Minimum order	1 Pcs
Document ID	EO-C51E65E7E5
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Product Overview

Sysmac NX7 AI Controller, 80 MB of memory, EtherCAT (256 axes, 512 nodes EtherCAT in total) and 2-port EtherNet/IP integrated

Sysmac NX7 AI Controller, 80MB memory, built-in EtherCAT (256 servo axes, in total 512 EtherCAT nodes) and 2 EtherNet/IP ports

STRUCTURED PRODUCT DATA

Technical Specifications

No structured technical attributes are currently available. Submit an RFQ for technical review.

Classification & Catalog Path

Catalog path	OMRON > Integrated Automation > NX701 Machine Controllers
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Additional Product Information

Controller functionalityAI control, Motion control, Sequence controlPrimary task cycle time0.125 msProgram memory80 MBVariables memory260 MBMax. number of synchronous axes256Max. number of axes (incl. virtual)256Communication port(s)EtherCAT Master, EtherNet/IP, Ethernet TCP/IPCommunication option(s)NoneMax. number of remote I/O nodes512I/O systemNX I/O BusMax. number of expansion units0Product Height (unpacked)100 mmProduct Width (unpacked)132 mmProduct Depth (unpacked)100 mmProduct Weight (unpacked)983.41 g
ETIM for 685578 PLC's (EC000236)

Feature Name

Feature Value

Performance level according to EN ISO 13849-1 (EF007399)

Level a

Model (EF000010)

Modular

SIL according to IEC 61508 (EF009889)

None

Voltage type (supply voltage) (EF002991)

AC/DC

Explosion safety category for gas (EF003997)

None

Explosion safety category for dust (EF003998)

None

Type of memory (EF002996)

FLASH

Radio standard UMTS (EF008525)

No

Supporting protocol for EtherCAT (EF017564)

Yes

Appendant operation agent (Ex ib) (EF004142)

No

Supporting protocol for other bus systems (EF003062)

Yes

Supporting protocol for SERCOS (EF006657)

No

IO link master (EF007298)

No

Rack-assembly possible (EF007018)

No

Supporting protocol for KNX (EF003055)

No

Supporting protocol for LON (EF003017)

No

Supporting protocol for SUCONET (EF003060)

No

Supporting protocol for IEC 60870 (EF016069)

No

Supporting protocol for EtherNet/IP (EF007521)

Yes

Supporting protocol for DNP3 (EF016068)

No

Radio standard GSM (EF008524)

No

Supporti...

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GLOBAL OFFICES

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