

NX-series EtherNet/IP Coupler Unit

NX-EIC

Connecting to open industrial network standard EtherNet/IP

- The EtherNet/IP Coupler Unit is the link between the controllers with the EtherNet/IP network and the NX-series I/O Units and Safety Units. With wide variety of the I/O Units and Safety Units, the NX-series is the perfect match for the CJ-series and third party controllers.

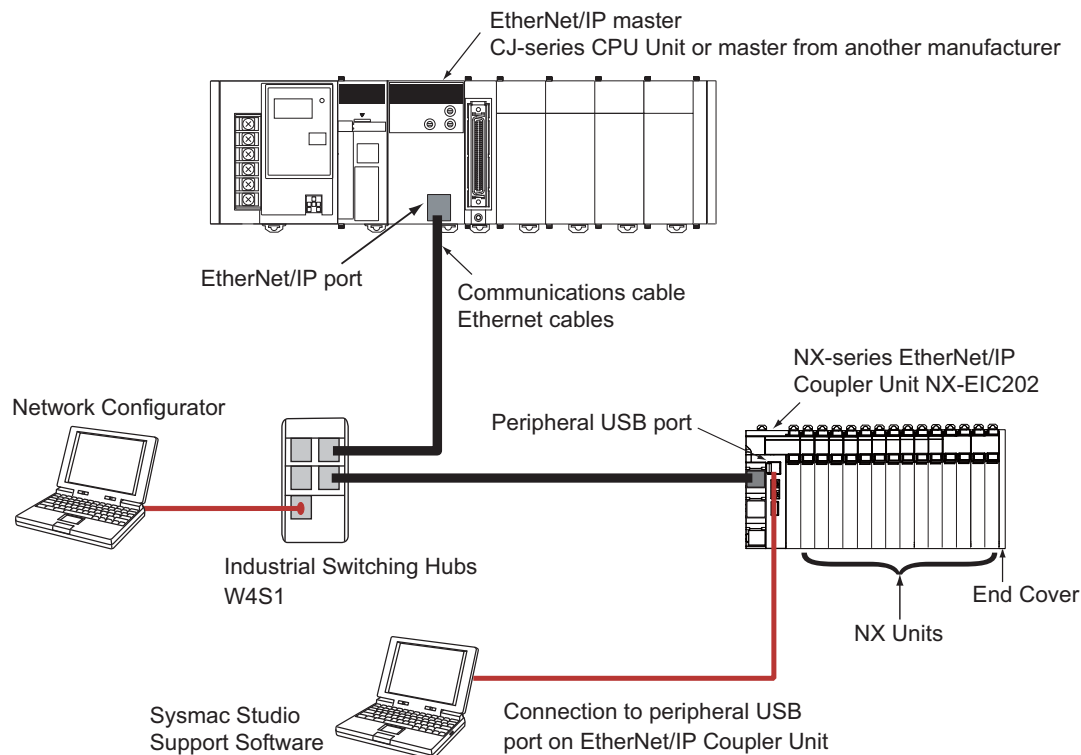


Features

- Up to 63 NX-IO Units can be connected to one EtherNet/IP Coupler Unit. Standard and high-performance units can be mixed.*
- I/O control and safety control can be integrated by connecting a safety controller and I/O.
- Slave configuration by Sysmac Studio can be completed centrally via the controller, or using the Coupler's built-in USB port.

* Input per Coupler Unit: Maximum 504 bytes, Output per Coupler Unit: Maximum 504 bytes

System Configuration




Refer to page 8 for the NX Units that can be connected to the NX-series EtherNet/IP Coupler Unit.

NX-EIC

Ordering Information

International Standards

- The standards are abbreviated as follows: U: UL, U1: UL(Class I Division 2 Products for Hazardous Locations), C: CSA, UC: cULus, UC1: cULus (Class I Division 2 Products for Hazardous Locations), CU: cUL, N: NK, L: Lloyd, CE: EC Directives, and KC: KC Registration.
- Contact your OMRON representative for further details and applicable conditions for these standards.

Unit type	Product Name	Current consumption	Maximum I/O power supply current	Model	Standards
NX Series EtherNet/IP Coupler Unit	EtherNet/IP Coupler Unit 	1.50 W or lower	10 A	NX-EIC202	UC1, CE, KC

Automation Software Sysmac Studio

Please purchase a DVD and required number of licenses the first time you purchase the Sysmac Studio. DVDs and licenses are available individually. Each model of licenses does not include any DVD.

Product name	Specifications			Model	Standards
		Number of licenses	Media		
Sysmac Studio NX-I/O Edition Ver.1.□□ *1 *2	Sysmac Studio NX-I/O Edition is a limited license that provides selected functions required for EtherNet/IP Coupler settings. Because this product is a license only, you need the Sysmac Studio Standard Edition DVD media to install it.	1 license	---	SYSMAC-NE001L	---
Sysmac Studio Standard Edition Ver.1.□□ *2	<p>The Sysmac Studio is the software that provides an integrated environment for setting, programming, debugging and maintenance of machine automation controllers including the NJ Series, EtherCat Slave, and the HMI.</p> <p>Sysmac Studio runs on the following OS. Windows XP (Service Pack 3 or higher, 32-bit version)/ Windows Vista (32-bit version)/Windows 7 (32-bit/64-bit version)/Windows 8 (32-bit/64-bit version)/ Windows 8.1 (32-bit/64-bit version)</p> <p>This software provides functions of the Vision Edition. Refer to Sysmac Catalog (P072) for details such as supported models and functions.</p>	--- (Media only)	DVD	SYSMAC-SE200D	---





*1. The Sysmac Studio Standard Edition with license(s) (SYSMAC-SE□□□L) provides functions of the NX-I/O Edition (SYSMAC-NE001L).

*2. With the Sysmac Studio Standard Edition with license(s) (SYSMAC-SE□□□L) version 1.10 or higher, you can use the setup functions for the EtherNet/IP Coupler.

Recommended Ethernet/IP Communications Cables

Use STP (shielded twisted-pair) cable of category 5 or higher for EtherNet/IP.

Cabel with Connectors

Item	Appearance	Recommended manufacturer	Cable length(m) *1	Model
Standard type Cable with Connectors on Both Ends (RJ45/RJ45) Wire Gauge and Number of Pairs: AWG27, 4-pair Cable Cable Sheath material: LSZH *2 Cable color: Yellow *3		OMRON	0.3	XS6W-6LSZH8SS30CM-Y
			0.5	XS6W-6LSZH8SS50CM-Y
			1	XS6W-6LSZH8SS100CM-Y
			2	XS6W-6LSZH8SS200CM-Y
			3	XS6W-6LSZH8SS300CM-Y
Rugged type Cable with Connectors on Both Ends (RJ45/RJ45) Wire Gauge and Number of Pairs: AWG22, 2-pair Cable		OMRON	0.3	XS5W-T421-AMD-K
			0.5	XS5W-T421-BMD-K
			1	XS5W-T421-CMD-K
			2	XS5W-T421-DMD-K
			5	XS5W-T421-GMD-K
Rugged type Cable with Connectors on Both Ends (M12 Straight/RJ45) Wire Gauge and Number of Pairs: AWG22, 2-pair Cable		OMRON	10	XS5W-T421-JMD-K
			0.3	XS5W-T421-AMC-K
			0.5	XS5W-T421-BMC-K
			1	XS5W-T421-CMC-K
			2	XS5W-T421-DMC-K
Rugged type Cable with Connectors on Both Ends (M12 Right-angle/RJ45) Wire Gauge and Number of Pairs: AWG22, 2-pair Cable		OMRON	5	XS5W-T421-GMC-K
			10	XS5W-T421-JMC-K
			0.3	XS5W-T422-AMC-K
			0.5	XS5W-T422-BMC-K
			1	XS5W-T422-CMC-K
			2	XS5W-T422-DMC-K
			5	XS5W-T422-GMC-K
			10	XS5W-T422-JMC-K

Note: For details, refer to Cat.No.G019.

*1 Standard type cables length 0.2, 0.3, 0.5, 1, 1.5, 2, 3, 5, 7.5, 10, 15 and 20m are available.

Rugged type cables length 0.3, 0.5, 1, 2, 3, 5, 10 and 15m are available.

*2 The lineup features Low Smoke Zero Halogen cables for in-cabinet use and PUR cables for out-of-cabinet use.

*3 Cables colors are available in blue, yellow, or Green

Optional Products

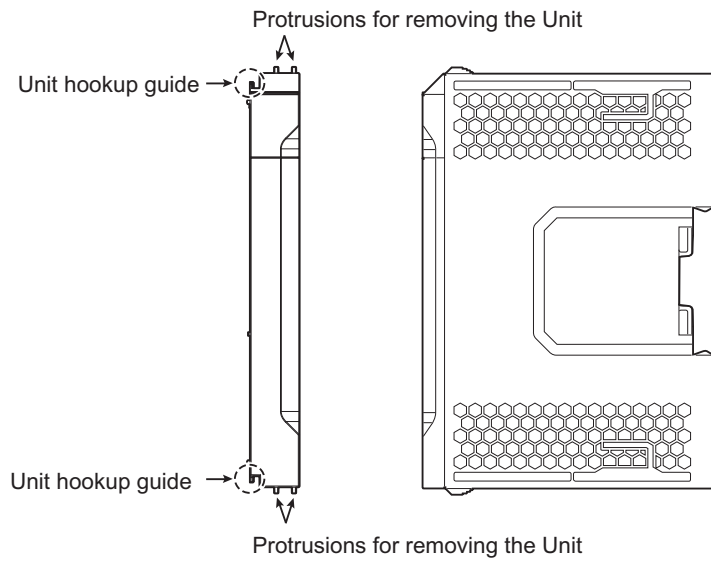
Product name	Specification				Model	Standards
Unit/Terminal Block Coding Pins	Pins for 10 Units (30 terminal block pins and 30 Unit pins)				NX-AUX02	---
Product Name	Specification				Model	Standards
	No. of terminals	Terminal number indications	Ground terminal mark	Terminal current capacity		
Terminal Block	8	A/B	Provided	10 A	NX-TBC082	---

NX-EIC

Accessories

End Cover (NX-END01)

One End Cover is provided together with the EtherNet/IP Coupler Unit.



General Specification

Item	Specification	
Enclosure	Mounted in a panel	
Grounding method	Ground to 100 Ω or less	
Operating environment	Ambient operating temperature	0 to 55°C
	Ambient operating humidity	10% to 95% (with no condensation or icing)
	Atmosphere	Must be free from corrosive gases.
	Ambient storage temperature	-25 to 70°C (with no condensation or icing)
	Altitude	2,000 m max.
	Pollution degree	Pollution degree 2 or less: Conforms to JIS B 3502 and IEC 61131-2.
	Noise immunity	Conforms to IEC 61000-4-4. 2 kV (power supply line)
	Overvoltage category	Category II: Conforms to JIS B 3502 and IEC 61131-2.
	EMC immunity level	Zone B
	Vibration resistance	Conforms to IEC 60068-2-6. 5 to 8.4 Hz with 3.5-mm amplitude, 8.4 to 150 Hz, acceleration of 9.8 m/s ² , 100 min each in X, Y, and Z directions (10 sweeps of 10 min each = 100 min total)
Shock resistance	Conforms to IEC 60068-2-27. 147 m/s ² , 3 times each in X, Y, and Z directions	
Applicable standards	cULus: Listed UL508 and ANSI/ISA 12.12.01 EC: EN 61131-2 and C-Tick	

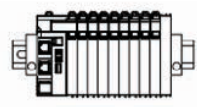
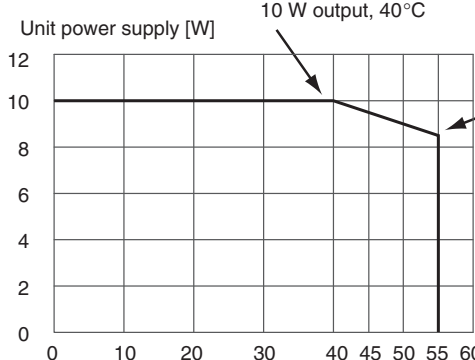
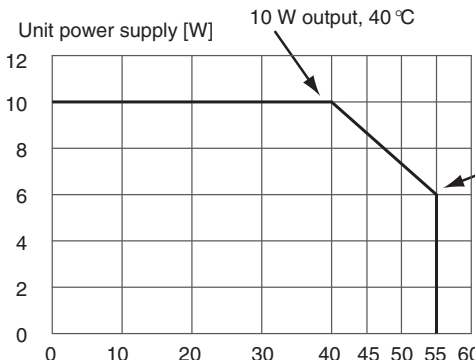
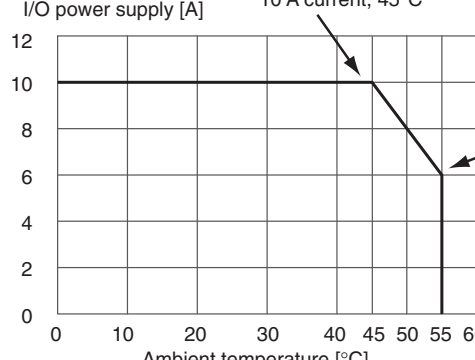
EtherNet/IP Coupler Unit Specifications

Item	Specification	
Model	NX-EIC202	
Number of connectable NX Units	63 Units max.*1	
Communications protocols	EtherNet/IP	
	UDP/IP and TCP/IP (Message Services) <ul style="list-style-type: none"> Number of buffers (sockets): <ul style="list-style-type: none"> • 8 message buffers for server • No message buffers for client • Shared buffers for UDP/IP messages and TCP/IP messages Maximum message size: <ul style="list-style-type: none"> • Request: 492 bytes • Response: 496 bytes Maximum NX output data size: <ul style="list-style-type: none"> • 490 bytes Maximum NX input data size: <ul style="list-style-type: none"> • 496 bytes 	
Modulation	Baseband	
Link speed	100 Mbps	
Physical layer	100BASE-TX (IEEE 802.3)	
Number of connections	8	
Received Packet Interval (RPI, refresh cycle)	4 to 1,000 ms	
Allowed communications bandwidth per Unit	1,000 pps	
Topology	Line, Tree, Star	
Transmission media	Category 5 or higher twisted-pair cable (Recommended cable: double-shielded cable with aluminum tape and braiding)	
Transmission distance	Distance between nodes: 100 m or less	
NX bus I/O data size	Input: 512 bytes max. (including input data, status, and unused areas) Output: 512 bytes max. (including output data and unused areas)	
EtherNet/IP I/O connection size	Input: 504 bytes max. (including input data, status, and unused areas) Output: 504 bytes max. (including output data and unused areas)	
Refreshing methods	Free-Run refreshing	
Unit power supply	Power supply voltage	24 VDC (20.4 to 28.8 VDC)
	NX Unit power supply capacity	10 W max.
	NX Unit power supply efficiency	70%
	Isolation method	No isolation between NX Unit power supply and Unit power supply terminals
I/O power supply	Current capacity of power supply terminals	4 A max.
	Power supply voltage	5 to 24 VDC (4.5 to 28.8 VDC) *2
	Maximum I/O power supply current	10 A
	Current capacity of power supply terminals	10 A max.
NX Unit power consumption	1.60 W max.	
Current consumption from I/O power supply	10 mA max. (for 24 VDC)	
Dielectric strength	510 VAC for 1 min, leakage current: 5 mA max. (between isolated circuits)	
Insulation resistance	100 VDC, 20 MΩ min. (between isolated circuits)	
External connection terminals	Communications Connector For EtherNet/IP communications. <ul style="list-style-type: none"> • RJ45 × 2 (shielded) 	
	Screwless Clamping Terminal Block For Unit power supply, I/O power supply, and grounding. Removable.	
	Peripheral USB Port For Sysmac Studio connection. <ul style="list-style-type: none"> • Physical layer: USB 2.0-compliant, B-type connector • Transmission distance: 5 m max. 	
Dimensions	46 × 100 × 71 mm (W×H×D)	
Weight	150 g max.	

*1. Refer to the NX-series Safety Control Unit User's Manual (Cat. No. Z930) for the number of Safety Control Units that can be connected.

*2. Use a voltage that is appropriate for the I/O circuits of the NX Units and the connected external devices.

*3 NX-PG0 Pulse output cards are not compatible with the EtherNet/IP Coupler.

Item	Specification																
<p>Installation orientation and restrictions</p>	<p>Installation orientation: 6 possible orientations</p> <p>Restrictions:</p> <ul style="list-style-type: none"> Used in the upright installation orientation.  <p>Unit power supply [W]</p> <p>10 W output, 40°C</p> <p>8.5 W output, 55°C</p>  <table border="1"> <caption>Unit power supply [W] vs Ambient temperature [°C] (Upright)</caption> <thead> <tr> <th>Ambient temperature [°C]</th> <th>Unit power supply [W]</th> </tr> </thead> <tbody> <tr><td>0</td><td>10</td></tr> <tr><td>10</td><td>10</td></tr> <tr><td>20</td><td>10</td></tr> <tr><td>30</td><td>10</td></tr> <tr><td>40</td><td>10</td></tr> <tr><td>55</td><td>8.5</td></tr> <tr><td>60</td><td>0</td></tr> </tbody> </table>	Ambient temperature [°C]	Unit power supply [W]	0	10	10	10	20	10	30	10	40	10	55	8.5	60	0
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<ul style="list-style-type: none"> Used in any other orientation than the upright installation orientation. <p>Unit power supply [W]</p> <p>10 W output, 40°C</p> <p>6.0 W output, 55°C</p>  <table border="1"> <caption>Unit power supply [W] vs Ambient temperature [°C] (Other orientations)</caption> <thead> <tr> <th>Ambient temperature [°C]</th> <th>Unit power supply [W]</th> </tr> </thead> <tbody> <tr><td>0</td><td>10</td></tr> <tr><td>10</td><td>10</td></tr> <tr><td>20</td><td>10</td></tr> <tr><td>30</td><td>10</td></tr> <tr><td>40</td><td>10</td></tr> <tr><td>55</td><td>6.0</td></tr> <tr><td>60</td><td>0</td></tr> </tbody> </table>	Ambient temperature [°C]	Unit power supply [W]	0	10	10	10	20	10	30	10	40	10	55	6.0	60	0	
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<p>I/O power supply [A]</p> <p>10 A current, 45°C</p> <p>6 A current, 55°C</p>  <table border="1"> <caption>I/O power supply [A] vs Ambient temperature [°C]</caption> <thead> <tr> <th>Ambient temperature [°C]</th> <th>I/O power supply [A]</th> </tr> </thead> <tbody> <tr><td>0</td><td>10</td></tr> <tr><td>10</td><td>10</td></tr> <tr><td>20</td><td>10</td></tr> <tr><td>30</td><td>10</td></tr> <tr><td>45</td><td>10</td></tr> <tr><td>55</td><td>6</td></tr> <tr><td>60</td><td>0</td></tr> </tbody> </table>	Ambient temperature [°C]	I/O power supply [A]	0	10	10	10	20	10	30	10	45	10	55	6	60	0	
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Item	Specification
<p>Circuit layout</p>	<p>The diagram illustrates the internal circuit layout of the NX-EIC. On the left, a terminal block provides connections for a Peripheral USB port, IN and OUT communication connectors, and power terminals UV, UG, IOV, and IOG. A non-isolated power supply circuit is connected to the UV, UG, and IOV terminals. Internal circuits are connected to the communication and power lines. Two LEDs, UNIT PWR LED and I/O PWR LED, are connected to the power supply lines. On the right, the NX bus connector provides connections for NX Unit power supply (+/-) and I/O power supply (+/-). The entire circuit is connected to a DIN Track contact plate at the bottom.</p>
<p>Terminal arrangement</p>	<p>The terminal arrangement diagram shows the physical layout of the power terminals. The Unit power supply (24 VDC) is connected to terminals UV and UG. The I/O power supply (5 to 24 VDC) is connected to terminals IOV and IOG. Ground connections are provided at terminals A8 and B8, with a note indicating a resistance of 100 Ω or less. A dashed line indicates through-wiring for unwired terminals between A1/B1 and A8/B8.</p>
<p>Accessory</p>	<p>End Cover (NX-END01): 1</p>

NX-EIC

Configuration Unit

Refer to the user's manuals for information on the NX Units that can be connected to the NX-series EtherNet/IP Coupler Unit.

EtherNet/IP Coupler Unit

Unit	Model
EtherNet/IP Coupler Unit	NX-EIC202

I/O Units

Unit	Model				
	2-point Units	4-point Units	8-point Units	16-point Units	32-point Units
Digital Input Unit	–	NX-ID3317 NX-ID3343 NX-ID3417 NX-ID3443 NX-IA3117	NX-ID4342 NX-ID4442	NX-ID5142-5 NX-ID5342 NX-ID5442	NX-ID6142-5
Digital Output Unit	NX-OC2633 NX-OC2733	NX-OD3121 NX-OD3153 NX-OD3256 NX-OD3257	NX-OD4121 NX-OD4256	NX-OD5121 NX-OD5121-5 NX-OD5256 NX-OD5256-5	NX-OD6121-5 NX-OD6256-5
Digital Mixed I/O Unit	–	–	–	NX-MD6121-5 NX-MD6256-5	–
Analog Input Unit	NX-AD2603 NX-AD2604 NX-AD2608 NX-AD2203 NX-AD2204 NX-AD2208	NX-AD3603 NX-AD3604 NX-AD3608 NX-AD3203 NX-AD3204 NX-AD3208	NX-AD4603 NX-AD4604 NX-AD4608 NX-AD4203 NX-AD4204 NX-AD4208	–	–
Analog Output Unit	NX-DA2603 NX-DA2605 NX-DA2203 NX-DA2205	NX-DA3603 NX-DA3605 NX-DA3203 NX-DA3205	–	–	–
Temperature Input Unit	NX-TS2101 NX-TS2102 NX-TS2104 NX-TS2201 NX-TS2202 NX-TS2204	NX-TS3101 NX-TS3102 NX-TS3104 NX-TS3201 NX-TS3202 NX-TS3204	–	–	–

Position Interface Unit

Unit	Model	
	1CH	2CH
Incremental Encoder Input Unit	NX-EC0112 NX-EC0122 NX-EC0132 NX-EC0142	NX-EC0212 NX-EC0222
SSI Input Unit	NX-ECS112	NX-ECS212

System Units

Unit	Model
Additional NX Unit Power Supply Unit	NX-PD1000
Additional I/O Power Supply Unit	NX-PF0630 NX-PF0730
I/O Power Supply Connection Unit	NX-PC0010 NX-PC0020 NX-PC0030
Shield Connection Unit	NX-TBX01

Safety Control Units

Unit	Model
Safety CPU Unit	NX-SL3300 *1
Safety Input Unit	NX-SIH400 *2 NX-SID800
Safety Output Unit	NX-SOH200 NX-SOD400

*1 Safety CPU Unit Ver.1.1 or higher.

*2 Safety Input Unit Ver.1.1 or higher.

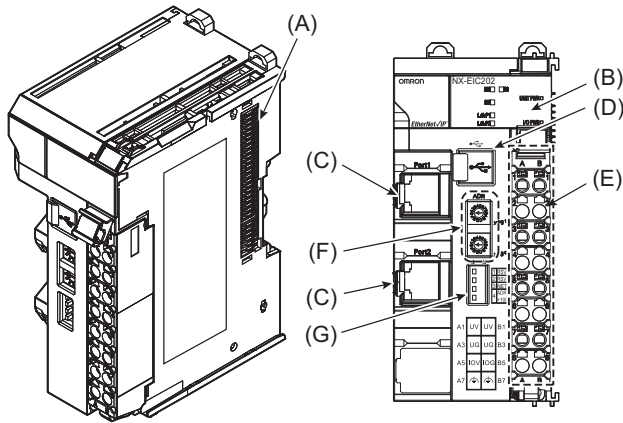
Version Information

NX-series EtherNet/IP Coupler Unit and Sysmac Studio

NX Units		version
Model	Unit Version	Sysmac Studio
NX-EIC202	Ver.1.0	Version 1.10 or later

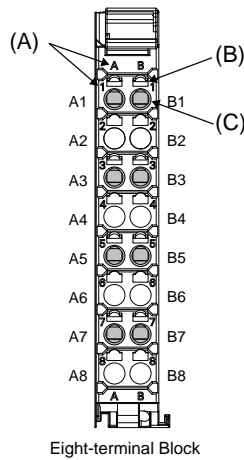
External Interface

EtherNet/IP Coupler Unit NX-EIC202



Letter	Name	Function
(A)	NX bus connector	This connector is used to connect the EtherNet/IP Coupler Unit to the NX Unit on the right of the Coupler Unit.
(B)	Indicators	The indicators show the current operating status of the Unit and the status of the power supply.
(C)	Communications connectors	These connectors are connected to the communications cables of the EtherNet/IP network.
(D)	Peripheral USB port	This port is used to connect to the Sysmac Studio.
(E)	Terminal block	The terminal block is used to connect to the power supply cables and ground wire.
(F)	Rotary switches	The rotary switches are used to set the last octet of the IP address of the EtherNet/IP Coupler Unit as an EtherNet/IP Slave. The address is set in hexadecimal.
(G)	DIP switch	The DIP switch is used to set the default node address of the EtherNet/IP Coupler Unit as an EtherNet/IP slave.

Terminal Block



Symbol	Name	Function
(A)	Terminal number indications	The terminal numbers (A1 to A8 and B1 to B8) are displayed. The terminal number indicators are the same regardless of the number of terminals on the terminal block, as shown above.
(B)	Release holes	Insert a flat-blade screwdriver into these holes to connect and remove the wires.
(C)	Terminal holes	The wires are inserted into these holes.

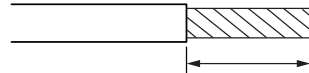
Applicable Wires

Twisted Wires/Solid Wires

If you use the twisted wires or the solid wires, use the following table to determine the correct wire specifications.

Terminals		Wire type		Wire plating		Wire size	Conductor length (stripping length)
Classification	Current capacity	Twisted wires	Solid wire	Plated	Unplated		
All terminals except ground terminals	2 A max.	Possible	Possible	Possible	Possible	0.08 to 1.5 mm ² AWG28 to 16	8 to 10 mm
	Greater than 2 A and 4 A or less				Not Possible		
	Greater than 4 A		Possible				
Ground terminals *	---		Possible		Possible	2.0 mm ²	9 to 10 mm

* With the NX-TB□□□1 Terminal Block, use twisted wires to connect the ground terminal. Do not use a solid wire.



Conductor length (stripping length)

<Additional Information> If more than 2 A will flow on the wires, use plated wires or use ferrules.

Precautions for Compliance with UL Standards and CSA Standards

Notice to Users of the NX series components in USA and Canada

Please use the following installation information instead of the general information in the instruction manuals in order to use the product under certified conditions of UL and CSA when the product is installed in the USA or Canada. These conditions are required by NFPA 70, National Electrical Code in the USA and the Canadian Electrical Code, Part I in Canada and may vary from information given in the product manuals or safety precautions.

Applicable Wire Size

For unit power source and IO power source terminal

Type	Wire size	Strip length
Solid/Strand	AWG 24-16	9mm

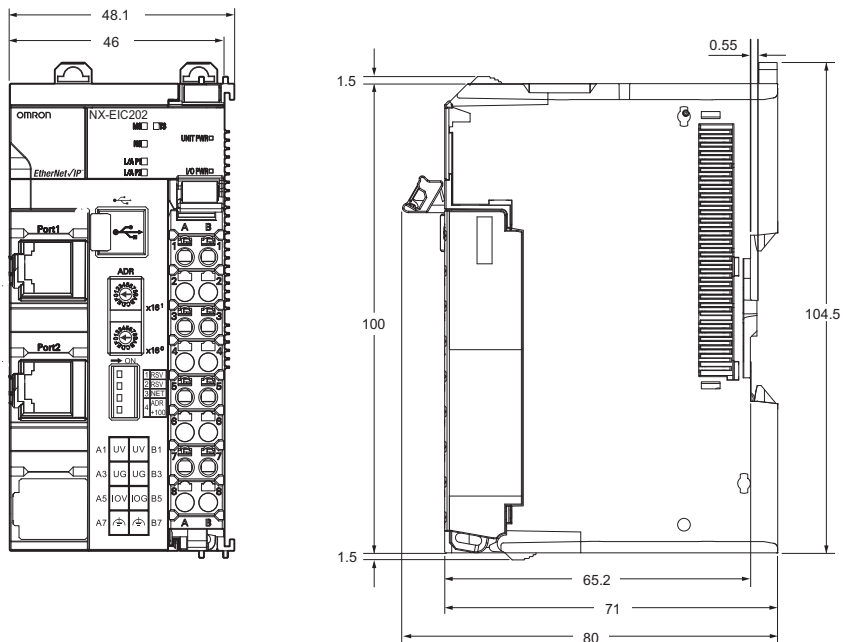
Do not use ferrule terminals. Insert the strand or solid wire directly into the holes on the terminal block.

Please select wire sizes suitable for rated current.

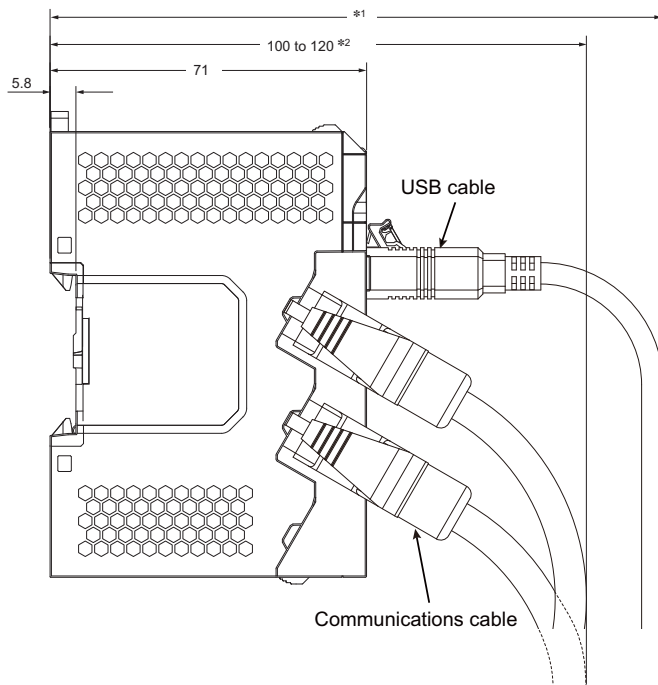
Wire size	Current (MAX)
AWG 24	2A
AWG 22	3A
AWG 20	5A
AWG 18	7A
AWG 16	10A

Dimensions

● EtherNet/IP Coupler Unit Only



● With Cables Connected

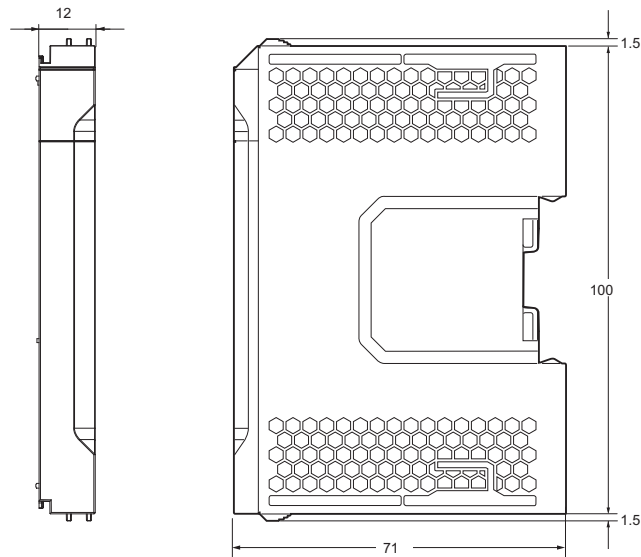


*1. This dimension depends on the specifications of the commercially available USB cable. Check the specifications of the USB cable that is used.

*2. This is the dimension from the back of the Unit to the communications cables.

- 100 mm: When an MPS588-C Connector is used.
- 120 mm: When an XS6G-T421-1 Connector is used.

● End Cover



Related Manuals

Man. No	Model	Manual	Application	Description
W536	NX-EIC□□□□	NX-series EtherNet/IP Coupler Unit User's Manual	Learning how to use an NX-series Ether-Net/IP Coupler Unit and EtherNet/IP Slave Terminals	Introduces the system, configuration methods, Unit hardware, setting methods, and functions of EtherNet/IP Slave Terminals that consist of an EtherNet/IP Coupler Unit and NX Units.
W525	NX-□□□□□□	NX-series Data Reference Manual	Referencing lists of the data that is required to configure systems with NX-series Units	Lists of the power consumptions, weights, and other NX Unit data that is required to configure systems with NX-series Units are provided.
W521	NX-ID□□□□ NX-IA□□□□ NX-OC□□□□ NX-OD□□□□ NX-MD□□□□	NX-series Digital I/O Units User's Manual	Learning how to use NX-series Digital I/O Units	The hardware, setup methods, and functions of the NX-series Digital I/O Units are described.
W522	NX-AD□□□□ NX-DA□□□□ NX-TS□□□□	NX-series Analog I/O Units User's Manual	Learning how to use NX-series Analog I/O Units and Temperature Input Units	The hardware, setup methods, and functions of the NX-series Analog I/O Units and Temperature Input Units are described.
W523	NX-PD1□□□ NX-PF0□□□ NX-PC0□□□ NX-TBX01	NX-series System Units User's Manual	Learning how to use NX-series System Units	The hardware and functions of the NX-series System Units are described.
W524	NX-EC0□□□ NX-ECS□□□ NX-PG0□□□	NX-series Position Interface Units User's Manual	Learning how to use NX-series Position Interface Units	The hardware, setup methods, and functions of the NX-series Incremental Encoder Input Units, SSI Input Units, and Pulse Output Unit are described.
Z930	NX-SL□□□□ NX-SI□□□□ NX-SO□□□□	NX-series Safety Control Unit User's Manual	Learning how to use NX-series Safety Control Units	The hardware, setup methods, and functions of the NX-series Safety Control Units are described.
Z931	NX-SL□□□□	NX-series Safety Control Unit Instructions Reference Manual	Learning about the specifications of instructions for the Safety CPU Unit.	The instructions for the Safety CPU Unit are described. When programming, use this manual together with the <i>NX-series Safety Control Unit User's Manual</i> (Cat. No. Z930).

NX Unit Compatibility with EtherNet/IP Unit and Sysmac Studio Versions

● Digital I/O Units

NX Units		Corresponding Unit Versions/Versions ^{*1}									
Model	Unit version	EtherCAT			EtherNet/IP						
		Communica-tions Coupler Units	CPU Units	Sysmac Studio	Communica-tions Coupler Units	Sysmac Studio					
NX-ID3317	Ver.1.0	Ver.1.0	Ver.1.05	Ver.1.06	Ver.1.0	Ver.1.10					
NX-ID3343											
NX-ID3344		Ver.1.1	Ver.1.06 ^{*2}	Ver.1.07	---	---					
NX-ID3417		Ver.1.0	Ver.1.05	Ver.1.06	Ver.1.0	Ver.1.10					
NX-ID3443											
NX-ID3444		Ver.1.1	Ver.1.06 ^{*2}	Ver.1.07	---	---					
NX-ID4342		Ver.1.0	Ver.1.05	Ver.1.06	Ver.1.0	Ver.1.10					
NX-ID4442											
NX-ID5142-1									Ver.1.13		Ver.1.13
NX-ID5142-5									Ver.1.10		Ver.1.10
NX-ID5342									Ver.1.06		
NX-ID5442											
NX-ID6142-5									Ver.1.10		
NX-ID6142-6									Ver.1.13		Ver.1.13
NX-IA3117									Ver.1.08		Ver.1.10
NX-OD2154							Ver.1.1	Ver.1.06 ^{*2}	Ver.1.07	---	---
NX-OD2258											
NX-OD3121							Ver.1.0	Ver.1.05	Ver.1.06	Ver.1.0	Ver.1.10
NX-OD3153											
NX-OD3256											
NX-OD3257											
NX-OD3268				Ver.1.13		Ver.1.13					
NX-OD4121				Ver.1.06		Ver.1.10					
NX-OD4256											
NX-OD5121											
NX-OD5121-1			Ver.1.13		Ver.1.13						
NX-OD5121-5			Ver.1.10		Ver.1.10						
NX-OD5256			Ver.1.06								
NX-OD5256-1			Ver.1.13		Ver.1.13						
NX-OD5256-5			Ver.1.10		Ver.1.10						
NX-OD6121-5											
NX-OD6121-6			Ver.1.13		Ver.1.13						
NX-OD6256-5			Ver.1.10		Ver.1.10						
NX-OC2633			Ver.1.06								
NX-OC2733			Ver.1.08								
NX-MD6121-5			Ver.1.10								
NX-MD6121-6			Ver.1.13		Ver.1.13						
NX-MD6256-5			Ver.1.10		Ver.1.10						

*1. Some Units do not have all of the versions given in the above table. If a Unit does not have the specified version, support is provided by the oldest available version after the specified version. Refer to the user's manuals for the specific Units for the relation between models and versions.

*2. The instructions for time stamp refreshing are supported by CPU Units with unit version 1.06 or later. If you do not use instructions for time stamp refreshing, you can use version 1.05. Refer to the NJ/NX-series Instructions Reference Manual (Cat. No. W502) for details on the instructions for time stamp refreshing.

● Analog Input Units/Analog Output Units

NX Units		Corresponding Unit Versions/Versions*1				
Model	Unit Ver- sion	EtherCAT			EtherNet/IP	
		Commu- nications Coupler Units	CPU Units	Sysmac Studio	Commu- nications Coupler Units	Sysmac Studio
NX-AD2203	Ver.1.0	Ver.1.0	Ver.1.05	Ver.1.06	Ver.1.0	Ver.1.10
NX-AD2204						
NX-AD2208						
NX-AD2603						
NX-AD2604						
NX-AD2608						
NX-AD3203						
NX-AD3204						
NX-AD3208						
NX-AD3603						
NX-AD3604						
NX-AD3608						
NX-AD4203						
NX-AD4204						
NX-AD4208						
NX-AD4603						
NX-AD4604						
NX-AD4608						
NX-DA2203						
NX-DA2205						
NX-DA2603						
NX-DA2605						
NX-DA3203						
NX-DA3205						
NX-DA3603						
NX-DA3605						

*1. Some Units do not have all of the versions given in the above table. If a Unit does not have the specified version, support is provided by the oldest available version after the specified version. Refer to the user's manuals for the specific Units for the relation between models and versions.

● Temperature Input Units

NX Units		Corresponding Unit Versions/Versions* ¹					
Model	Unit Version	EtherCAT			EtherNet/IP		
		Communications Coupler Units	CPU Units	Sysmac Studio	Communications Coupler Units	Sysmac Studio	
NX-TS2101	Ver.1.0	Ver.1.0 * ¹	Ver.1.05	Ver.1.06	Ver.1.0	Ver.1.10	
	Ver.1.1			Ver.1.08			
NX-TS2102	Ver.1.1						
NX-TS2104	Ver.1.1						
NX-TS2201	Ver.1.0						Ver.1.06
	Ver.1.1						Ver.1.08
NX-TS2202	Ver.1.1						
NX-TS2204	Ver.1.1						
NX-TS3101	Ver.1.0						Ver.1.06
	Ver.1.1						Ver.1.08
NX-TS3102	Ver.1.1						
NX-TS3104	Ver.1.1						
NX-TS3201	Ver.1.0						Ver.1.06
	Ver.1.1						Ver.1.08
NX-TS3202	Ver.1.1						
NX-TS3204	Ver.1.1						

*1. Some Units do not have all of the versions given in the above table. If a Unit does not have the specified version, support is provided by the oldest available version after the specified version. Refer to the user's manuals for the specific Units for the relation between models and versions.

● Position Interface Units

NX Units		Corresponding Unit Versions/Versions*1					
Model	Unit version	EtherCAT			EtherNet/IP		
		Communications Coupler Units	CPU Units	Sysmac Studio	Communications Coupler Unit	Sysmac Studio	
NX-EC0112	Ver.1.1	Ver.1.1 *2	Ver.1.06 *2	Ver.1.10	Ver.1.0	Ver.1.10	
	Ver.1.2			Ver.1.13		Ver.1.13	
NX-EC0122	Ver.1.0			Ver.1.07		Ver.1.10	
	Ver.1.1			Ver.1.08		Ver.1.13	
	Ver.1.2			Ver.1.13		Ver.1.13	
NX-EC0132	Ver.1.1			Ver.1.10		Ver.1.10	
	Ver.1.2			Ver.1.13		Ver.1.13	
NX-EC0142	Ver.1.0			Ver.1.07		Ver.1.10	
	Ver.1.1			Ver.1.08		Ver.1.13	
	Ver.1.2			Ver.1.13		Ver.1.13	
NX-EC0212	Ver.1.1			Ver.1.10		Ver.1.10	
	Ver.1.2			Ver.1.13		Ver.1.13	
NX-EC0222	Ver.1.0	Ver.1.07	Ver.1.10				
	Ver.1.1	Ver.1.08	Ver.1.13				
	Ver.1.2	Ver.1.13	Ver.1.13				
NX-ECS112	Ver.1.0	Ver.1.07	Ver.1.10				
	Ver.1.1	Ver.1.08	Ver.1.13				
	Ver.1.2	Ver.1.13	Ver.1.13				
NX-ECS212	Ver.1.0	Ver.1.07	Ver.1.10				
	Ver.1.1	Ver.1.08	Ver.1.13				
	Ver.1.2	Ver.1.13	Ver.1.13				
NX-PG0112	Ver.1.1	Ver.1.0	Ver.1.05	Ver.1.10	---	---	
	Ver.1.2			Ver.1.13			
NX-PG0122	Ver.1.0			Ver.1.06			Ver.1.10
	Ver.1.1			Ver.1.08			Ver.1.13
	Ver.1.2			Ver.1.13			Ver.1.13

*1. Some Units do not have all of the versions given in the above table. If a Unit does not have the specified version, support is provided by the oldest available version after the specified version. Refer to the user's manuals for the specific Units for the relation between models and versions.

*2. You can use the following versions if the time stamp refreshing function is not used.
 EtherCAT Coupler Unit: Version 1.0
 NJ-series CPU Units: Version 1.05

● Communications Interface Units

NX Units		Corresponding Unit Versions/Versions				
Model	Unit version	EtherCAT			EtherNet/IP	
		Communications Coupler Units	CPU Units	Sysmac Studio	Communications Coupler Unit	Sysmac Studio
NX-CIF101	Ver.1.0	Ver.1.0	Ver.1.10	Ver.1.12	---	---
NX-CIF105						
NX-CIF210						

● System Units

NX Units		Corresponding Unit Versions/Versions*1				
Model	Unit version	EtherCAT			EtherNet/IP	
		Commu- nications Coupler Units	CPU Units	Sysmac Studio	Commu- nications Coupler Unit	Sysmac Studio
NX-PD1000	Ver.1.0	Ver.1.0	Ver.1.05	Ver.1.06	Ver.1.0	Ver.1.10
NX-PF0630				Ver.1.08		
NX-PF0730						
NX-PC0020				Ver.1.06		
NX-PC0010						
NX-PC0030						
NX-TBX01						

*1. Some Units do not have all of the versions given in the above table. If a Unit does not have the specified version, support is provided by the oldest available version after the specified version. Refer to the user's manuals for the specific Units for the relation between models and versions.

● Safety Control Units

NX Units		Corresponding Unit Versions/Versions*1				
Model	Unit version	EtherCAT			EtherNet/IP	
		Commu- nications Coupler Units	CPU Units	Sysmac Studio	Commu- nications Coupler Unit	Sysmac Studio
NX-SL3300	Ver.1.0	Ver.1.1	Ver.1.06	Ver.1.07	---	---
	Ver.1.1			Ver.1.10		
NX-SL3500	Ver.1.0	Ver.1.2	Ver.1.07	Ver.1.08	---	---
	Ver.1.1			Ver.1.10		
NX-SIH400	Ver.1.0	Ver.1.1	Ver.1.06	Ver.1.07	---	---
	Ver.1.1			Ver.1.10		
NX-SID800	Ver.1.0	Ver.1.1	Ver.1.06	Ver.1.07	---	---
NX-SOD400						
NX-SOH200						

*1. Some Units do not have all of the versions given in the above table. If a Unit does not have the specified version, support is provided by the oldest available version after the specified version. Refer to the user's manuals for the specific Units for the relation between models and versions.

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