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 EtherNet/IP multivendor 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 multivendor Controllers.

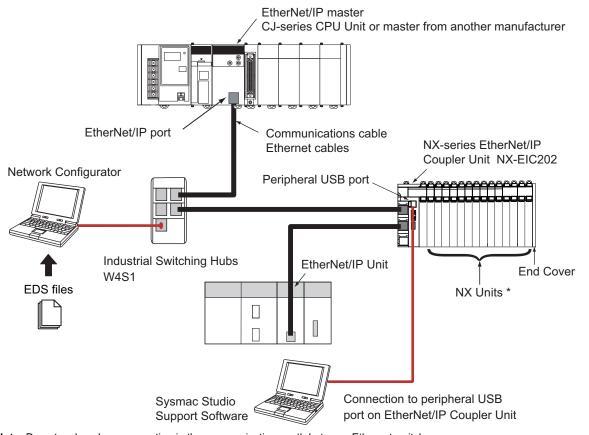


Features

- Up to 63 NX-IO Units can be connected to one EtherNet/IP Coupler Unit. Standard and high-performance units can be mixed.*
- Each Coupler plus its I/O form just a single EtherCAT node on the network.
- I/O control and safety control can be integrated by connecting Units for safety.
- The IP address can be found on the label on the Unit, without using software.
- Slave configuration by Sysmac Studio can be done centrally via the controller, or on-the-spot using the Coupler's built-in USB port.
- * Input per Coupler Unit: Maximum 504 bytes, Output per Coupler Unit: Maximum 504 bytes

System Configuration

System Configuration of Slave Terminals



Note: Do not make a loop connection in the communications path between Ethernet switches. * Refer to *Configuration Unit* on page 8 for the NX Units that can be connected to the NX-series EtherNet/IP Coupler Unit.

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Ordering Information

Applicable standards Refer to the OMRON website (www.ia.omron.com) or ask your OMRON representative for the most recent applicable standards for each model.

EtherNet/IP Coupler Unit

Product name	Current consumption	Maximum I/O power supply current	Model
EtherNet/IP Coupler Unit			
	1.60 W or lower	10 A	NX-EIC202

Automation Software Sysmac Studio

The Sysmac Studio is the software that provides an integrated environment for setting, programming, debugging and maintenance of machine automation controllers including the NJ/NX-series CPU Units, NY-series Industrial PC, EtherCAT Slave, and the HMI.

For details, refer to your local OMRON website and Sysmac Studio Catalog (Cat. No. P138).

Connecting Cable

Peripheral (USB) Port

Use a commercially available USB-certified cable. Specifications: USB 1.1 or 2.0 cable (A connector - B connector), 5.0 m max.

Recommended EtherNet/IP Communications Cables

For EtherNet/IP, required specification for the communications cables varies depending on the baud rate. For 100BASE-TX/10BASE-T, use a straight or cross STP (shielded twisted-pair) cable of category 5 or higher. For 1000BASE-T, use a straight or cross STP cable of category 5e or higher with double shielding (aluminum tape and braiding).

Cable with Connectors

Item	Appearance	Recommended manufacturer	Cable length (m)	Model		
Cable with Connectors on Both Ends			0.3	XS6W-6PUR8SS30CM-YF		
(RJ45/RJ45) Standard RJ45 plugs type *1			0.5	XS6W-6PUR8SS50CM-YF		
Wire Gauge and Number of Pairs:			1	XS6W-6PUR8SS100CM-YF		
AWG26, 4-pair Cable Cable Sheath material: PUR		OMRON	2	XS6W-6PUR8SS200CM-YF		
Cable color: Yellow *2 EtherCAT/	la ^r		3	XS6W-6PUR8SS300CM-YF		
EtherNet/IP (10BASE/100BASE)			5	XS6W-6PUR8SS500CM-YF		
Cable with Connectors on Both Ends			0.3	XS5W-T421-AMD-K		
(RJ45/RJ45) Rugged RJ45 plugs type *1			0.5	XS5W-T421-BMD-K		
Wire Gauge and Number of Pairs:		OMRON	1	XS5W-T421-CMD-K		
AWG22, 2-pair Cable	*0	OMINON	2	XS5W-T421-DMD-K		
Cable color: Light blue EtherCAT/			5	XS5W-T421-GMD-K		
EtherNet/IP (10BASE/100BASE)			10	XS5W-T421-JMD-K		
Cable with Connectors on Both Ends			0.5	XS5W-T421-BM2-SS		
(M12 Straight/M12 Straight) Shield Strengthening Connector cable *3	-		XS5W-T421-CM2-SS			
M12/Smartclick Connectors Wire Gauge and Number of Pairs:		OMRON	2	XS5W-T421-DM2-SS		
AWG22, 2-pair Cable		OWINON	3	XS5W-T421-EM2-SS		
Cable color: Black EtherCAT/		0	0	<u> </u>	5	XS5W-T421-GM2-SS
EtherNet/IP (10BASE/100BASE)			10	XS5W-T421-JM2-SS		
Cable with Connectors on Both Ends (M12 Straight/RJ45)			0.5	XS5W-T421-BMC-SS		
Shield Strengthening Connector cable *3			1	XS5W-T421-CMC-SS		
M12/Smartclick Connectors Rugged RJ45 plugs type	15	OMRON	2	XS5W-T421-DMC-SS		
Wire Gauge and Number of Pairs: AWG22, 2-pair Cable	-0		3	XS5W-T421-EMC-SS		
Cable color: Black EtherCAT/			5	XS5W-T421-GMC-SS		
EtherNet/IP (10BASE/100BASE)			10	XS5W-T421-JMC-SS		

*1. Cables with standard RJ45 plugs are available in the following lengths: 0.2 m, 0.3 m, 0.5 m, 1 m, 1.5 m, 2 m, 3 m, 5 m, 7.5 m, 10 m, 15 m, 20 m. Cables with rugged RJ45 plugs are available in the following lengths: 0.3 m, 0.5 m, 1 m, 2 m, 3 m, 5 m, 10 m, 15 m. For details, refer to the *Industrial Ethernet Connectors Catalog* (Cat. No. G019).

*2. Cables colors are available in blue, yellow, or Green.

*3. For details, contact your OMRON representative.

Cables / Connectors

Item		Recommended manufacturer	Model	
Products for EtherNet/IP	Wire Gauge and Number of	Cables	Kuramo Electric Co.	KETH-SB *1
(100BASE-TX)	Pairs: AWG24, 4-pair Cable	RJ45 Connectors	Panduit Corporation	MPS588-C *1
	Wire Gauge and	Cables	Kuramo Electric Co.	KETH-PSB-OMR *2
			JMACS Japan Co., Ltd.	PNET/B *2
Products for EtherNet/IP (100BASE-TX)	Number of Pairs: AWG22, 2-pair Cable	RJ45 Assembly Connector	OMRON	XS6G-T421-1 *2

*1. We recommend you to use above cable for EtherNet/IP and RJ45 Connector together.*2. We recommend you to use above cable for EtherNet/IP and RJ45 Assembly Connector together.

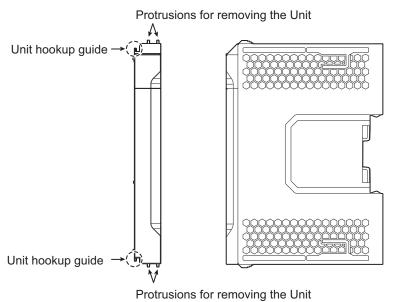
Optional Products

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

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 me	ethod	Ground to 100 Ω or less
	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.
Operating	Pollution degree	Pollution degree 2 or less: Meets IEC 61010-2-201.
environment	Noise immunity	Conforms to IEC 61000-4-4. 2 kV (power supply line)
••••••	Overvoltage category	Category II: Meets IEC 61010-2-201.
	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) *1
Shock resistance Conforms to IEC 60068-2-27. 147 m/s ² , 3 times each in X, Y, and Z di		Conforms to IEC 60068-2-27. 147 m/s ² , 3 times each in X, Y, and Z directions *1
Applicable sta	andards *2	cULus: Listed UL508, ANSI/ISA 12.12.01 EU: EN 61131-2, C-Tick or RCM, KC: KC Registration

*1. Refer to the NX-series Digital I/O Units User's Manual (Cat. No. W521) for the vibration and shock resistance specifications of the Relay Output Unit.

*2. Refer to the OMRON website (http://www.ia.omron.com/) or consult your OMRON representative for the most recent applicable standards for each model.

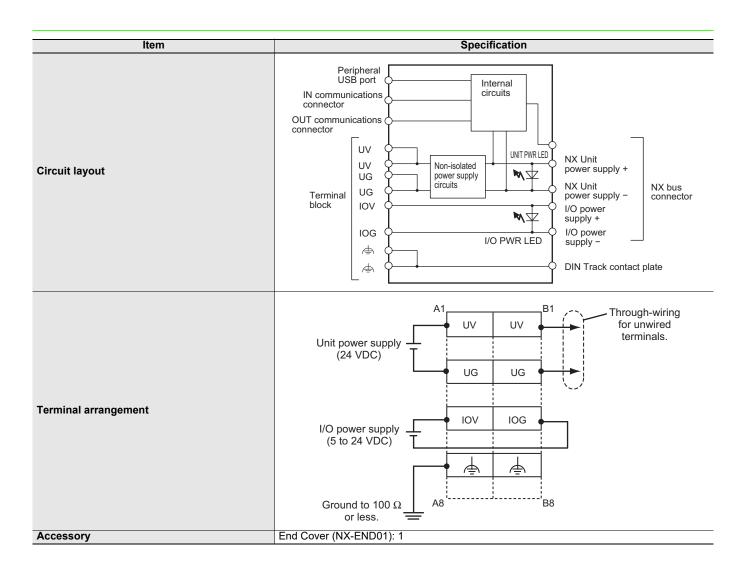
EtherNet/IP Coupler Unit Specifications

	Item	m Specification		
Model		NX-EIC202		
Number of co	nnectable NX Units	63 Units max.*1		
		EtherNet/IP		
Communications protocols		UDP/IP and TCP/IP (Message Services)	Number of buffers (sockets): • 8 message buffers for server • No message buffers for client • Shared buffers for UDP/IP messages and TCP/IP messages Maximum message size: • Request: 492 bytes • Response: 496 bytes Maximum NX output data size: • 490 bytes Maximum NX input data size: • 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 addressing to the local node		1,000 pps		
Topology		Line, Tree, Star		
Ethernet Switch		Layer 2 Ethernet switch		
Transmission	media	Category 5 or higher twisted-pair cable (Re double-shielded cable with aluminum tape		
Transmission	distance	Distance between nodes: 100 m or less		
NX bus I/O da	ta size	Input: 512 bytes max. (including input data Output: 512 bytes max. (including output d	, status, and unused areas) lata and unused areas)	
EtherNet/IP I/0	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 me	ethods	Free-Run refreshing		
	Power supply voltage	24 VDC (20.4 to 28.8 VDC)		
	NX Unit power supply capacity	10 W max. (Refer to Installation orientation	n and restrictions for details.)	
Unit power	NX Unit power supply efficiency	70%		
supply *2	Isolation method	No isolation between NX Unit power supply	y and Unit power supply terminals	
	Current capacity of power supply terminals	4 A max.		
	Power supply voltage	5 to 24 VDC (4.5 to 28.8 VDC) *3		
I/O power	Maximum I/O power supply current	10 A (Refer to Installation orientation and r	restrictions for details.)	
supply *2	Current capacity of power supply terminals	10 A max.		
	r consumption	1.60 W max.		
Current consu	umption from I/O power supply	10 mA max. (for 24 VDC)		
*4 D (NIX	de Manuel (Oct. No. 7000) for the second or a	E Cafaty Cantral Units that can be connected	

*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. Refer to the *NX-series EtherNet/IP™Coupler Unit User's Manual* (Cat. No. W536) for procedures for designing the Unit power supply system and I/O power supply system.

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

Item	Specification		
Dielectric strength	510 VAC for 1 min, leakage current: 5 mA max. (between isolated circuits)		
Insulation resistance	100 VDC, 20 M Ω min. (between isolated circuits)		
External connection terminals	Communications Connector For EtherNet/IP communications. • 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. • Physical layer: USB 2.0-compliant, B-type connector • Transmission distance: 5 m max. 46 × 100 × 71 mm (WxHxD)		
Dimensions	46 × 100 × 71 mm (W×H×D)		
Weight	150 g max.		
Installation orientation and restrictions	Installation orientation: 6 possible orientations Restrictions: • Used in any other orientation than the upright installation orientation. Unit power supply [W] 10 W output, 40°C 4 2 0 0 10 20 30 40 45 50 55 60 Ambient temperature [°C] • Used in any other orientation than the upright installation orientation. Unit power supply [W] 10 W output, 40°C 4 2 0 0 10 20 30 40 45 50 55 60 Ambient temperature [°C] • Used in any other orientation than the upright installation orientation. Unit power supply [W] 10 W output, 40°C 4 2 0 0 10 20 30 40 45 50 55 60 Ambient temperature [°C] • Used in any other orientation than the upright installation orientation. Unit power supply [W] 10 A current, 45°C 6 4 2 0 0 10 20 30 40 45 50 55 60 Ambient temperature [°C]		



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				
Onit	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-ID5142-1 NX-ID5142-5 NX-ID5342 NX-ID5442	NX-ID6142-5 NX-ID6142-6 NX-ID6342 NX-ID6442	
Digital Output Unit	NX-OC2633 NX-OC2733	NX-OD3121 NX-OD3153 NX-OD3256 NX-OD3257 NX-OD3268	NX-OD4121 NX-OD4256 NX-OC4633	NX-OD5121 NX-OD5121-1 NX-OD5121-5 NX-OD5256 NX-OD5256-1 NX-OD5256-5	NX-OD6121 NX-OD6121-5 NX-OD6121-6 NX-OD6256 NX-OD6256-5	
Digital Mixed I/O Unit	-	_	-	NX-MD6121-5 NX-MD6121-6 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	_	_	_	
Heater Burnout Detection Unit	-	NX-HB3101 NX-HB3201	_	-	-	

Temperature Control Units

Unit		Model			
Unit	2CH 4CH		8CH		
		NX-TC3405, NX-TC3406, NX-TC3407, NX-TC3408, NX-HTC3510-5	NX-HTC4505-5		

Load Cell Input Unit

Unit	Model
Load Cell Input Unit	NX-RS1201

Position Interface Units

Unit	Model		
onit	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	
Pulse Output Unit	NX-PG0112, NX-PG0122	-	

Communications Interface Units

Unit	Model
	NX-CIF101, NX-CIF105, NX-CIF210

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

IO-Link Master Unit

Unit	Model	
IO-Link Master Unit	NX-ILM400	

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 CPUUnit Ver 1.1 or higher	

*2. Safety Input Unit Ver.1.1 or higher.

Version Information

Depending on the type and model of the Unit, some Units do not have all of the versions given in the corresponding versions. 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.

The versions of each unit and support tool listed in the Corespnding unit version/version indicate whether the EtherNet/IP Coupler Unit can be connected or configured.

Connection to the NJ/NX-series CPU Unit or NY-series Industrial PC NX-series CPU Unit or NY-series Industrial PC

EtherNet/IP C	oupler Unit	it Corresponding unit version/vers			
Model	Unit version	Unit version of CPU Unit or Industrial PC	Sysmac Studio version	Network Configurator for EtherNet/IP version	CX-ConfiguratorFDT version
NX-EIC202	Ver.1.2	Ver.1.14	Ver.1.19	Ver.3.21	Ver.2.4 *
INA-EIC2U2	Ver.1.0	Not possible.	Not possible.	Not possible.	Not possible.

* The CX-ConfiguratorFDT with version 2.2 or later can be used if it is connected to the peripheral USB port on the EtherNet/IP Coupler Unit.

NJ-series CPU Unit

EtherNet/IP C	Coupler Unit	Corresponding unit version/version					
Model	Unit version	Unit version of CPU Unit	Unit version of CJ1W-EIP21S	Unit version of CJ1W-EIP21	Sysmac Studio version	Network Configurator for EtherNet/IP version	CX- ConfiguratorFDT version
NX-EIC202	Ver.1.2	Ver.1.14	Ver.1.0 (Lot number 241001⊡ or later)	Ver.2.1	Ver.1.19	Ver.3.21	Ver.2.4 *
	Ver.1.0	Not possible.	Not possible.	Not possible.	Not possible.	Not possible.	Not possible.

* The CX-ConfiguratorFDT with version 2.2 or later can be used if it is connected to the peripheral USB port on the EtherNet/IP Coupler Unit.

Connection to CS/CJ/CP-series CPU Unit CS1G/CS1H/CJ1H/CJ1M * CPU Units

* Final order entry date for CJ1M:The end of March, 2021

EtherNet/IP C	oupler Unit	Corresponding unit version/version					
Model	Unit version	Unit version of CPU Unit	Unit version of CS1W-EIP21S	Unit version of CS1W-EIP21/ CJ1W-EIP21	Network Configurator for EtherNet/IP version	NX-IO Configurator version	CX- ConfiguratorFDT version
NX-EIC202	Ver.1.2			Ver.2.1	Ver.3.00	Ver.1.00	Ver.2.4 *1
Ver.1.0	Ver.1.0	Ver.3.0	Ver.1.0			Ver.1.00 *2	Ver.2.2

*1. The CX-ConfiguratorFDT with version 2.2 or later can be used if it is connected to the peripheral USB port on the EtherNet/IP Coupler Unit. *2. You can connect only to the peripheral USB port on the EtherNet/IP Coupler Unit. You cannot connect with any other path.

CJ2H-CPU6□/CJ2M-CPU1□/CP1H CPU Unit

EtherNet/IP C	oupler Unit	Corresponding unit version/version					
Model	Unit version	Unit version of CPU Unit	Unit version of CJ1W-EIP21S	Unit version of CJ1W-EIP21	Network Configurator for EtherNet/IP version	NX-IO Configurator version	CX- ConfiguratorFDT version
	Ver.1.2	Ver.1.0	Ver.1.0	Ver.2.1	Ver.3.00	Ver.1.00	Ver.2.4 *1
NX-EIC202	Ver.1.0	ver. 1.0				Ver.1.00 *2	Ver.2.2

*1. The CX-ConfiguratorFDT with version 2.2 or later can be used if it is connected to the peripheral USB port on the EtherNet/IP Coupler Unit. *2. You can connect only to the peripheral USB port on the EtherNet/IP Coupler Unit. You cannot connect with any other path.

CJ2H-CPU6□-EIP CPU Unit

EtherNet/IP C	oupler Unit	Corresponding unit version/version					
Model	Unit version	Unit version of CPU Unit	Unit version of CJ1W-EIP21S	Unit version of CJ1W-EIP21	Network Configurator for EtherNet/IP version	NX-IO Configurator version	CX- ConfiguratorFDT version
NX-EIC202	Ver.1.2		Ver.1.0	Ver.2.1	Ver.3.00	Ver.1.00	Ver.2.4 *1
	Ver.1.0	Ver.1.5				Ver.1.00 *2	Ver.2.2

The CX-ConfiguratorFDT with version 2.2 or later can be used if it is connected to the peripheral USB port on the EtherNet/IP Coupler Unit.
 You can connect only to the peripheral USB port on the EtherNet/IP Coupler Unit. You cannot connect with any other path.

CJ2M-CPU3 CPU Unit

EtherNet/IP C	Coupler Unit	Corresponding unit version/version					
Model	Unit version	Unit version of CPU Unit	Unit version of CJ1W-EIP21S	Unit version of CJ1W-EIP21	Network Configurator for EtherNet/IP version	NX-IO Configurator version	CX- ConfiguratorFDT version
	Ver.1.2	Ver.1.0	Ver.1.0	Ver.2.1	Ver.3.21	Ver.1.00	Ver.2.4 *1
NX-EIC202 Ve	Ver.1.0					Ver.1.00 *2	Ver.2.2

*1. The CX-ConfiguratorFDT with version 2.2 or later can be used if it is connected to the peripheral USB port on the EtherNet/IP Coupler Unit. *2. You can connect only to the peripheral USB port on the EtherNet/IP Coupler Unit. You cannot connect with any other path.

Connection to the Sysmac Gateway

Sysmac Gateway

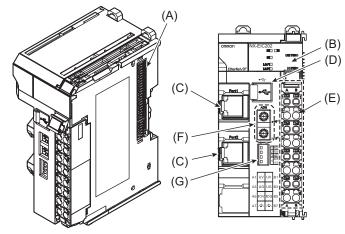
EtherNet/IP C	oupler Unit		Corresponding u	it version/version		
Model	Unit version	Sysmac Gateway version	Network Configurator for EtherNet/IP version	NX-IO Configurator version	CX-ConfiguratorFDT version	
NX-EIC202	Ver.1.2	Vor 1 21	er.1.31 Ver.3.50	Ver.1.00	Ver.2.4 *1	
INA-EIC2U2	X-EIC202 Ver.1.0		Vel.3.00	Ver.1.00 *2	Ver.2.2	

*1. The CX-ConfiguratorFDT with version 2.2 or later can be used if it is connected to the peripheral USB port on the EtherNet/IP Coupler Unit.

*2. You can connect only to the peripheral USB port on the EtherNet/IP Coupler Unit. You cannot connect with any other path.

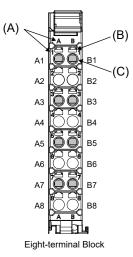
External Interface

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 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

Using Ferrules

If you use ferrules, attach the twisted wires to them.

Observe the application instructions for your ferrules for the wire stripping length when attaching ferrules.

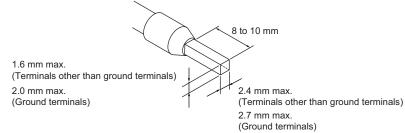
Always use plated one-pin ferrules. Do not use unplated ferrules or two-pin ferrules.

The applicable ferrules, wires, and crimping tool are given in the following table.

Terminal types	Manufacturer	Ferrule model	Applicable wire (mm ² (AWG))	Crimping tool	
	r	AI0,34-8	0.34 (#22)		
		AI0,5-8	- 0.5 (#20)		
		AI0,5-10			
Terminals other		AI0,75-8	0.75 (#18)		
than ground		AI0,75-10		Phoenix Contact (The figure in parentheses is the applicable wire size.) CRIMPFOX 6 (0.25 to 6 mm ² , AWG 24 to 10)	
terminals	Phoenix Contact	AI1,0-8	- 1.0 (#18)		
		AI1,0-10			
		AI1,5-8	- 1.5 (#16)		
		AI1,5-10			
Ground terminals		AI2,5-10	2.0 *1		
		H0.14/12	0.14 (#26)		
		H0.25/12	0.25 (#24)		
		H0.34/12	0.34 (#22)		
		H0.5/14	- 0.5 (#20)	Weidmueller (The figure in parentheses is the applicable wire size.) PZ6 Roto (0.14 to 6 mm², AWG 26 to 10)	
Terminals other		H0.5/16			
than ground	Weidmuller	H0.75/14	0.75 (#40)		
terminals		H0.75/16	0.75 (#18)		
		H1.0/14	1.0 (#19)		
		H1.0/16	1.0 (#18)		
		H1.5/14	- 1.5 (#16)		
		H1.5/16	1.5 (#10)		

*1. Some AWG 14 wires exceed 2.0 mm² and cannot be used in the screwless clamping terminal block.

When you use any ferrules other than those in the above table, crimp them to the twisted wires so that the following processed dimensions are achieved.



Using Twisted Wires/Solid Wires

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

Terr	Wire type						
Ten	Twisted wires		Solid wire		Wire size	Conductor length (stripping length)	
Classification	Current capacity	Plated	Unplated	Plated	Unplated		(ourpping longur)
	2 A max.	Possible	Possible	Possible	Possible	0.08 to 1.5 mm ² AWG28 to 16	8 to 10 mm
All terminals except ground terminals	Greater than 2 A and 4 A or less		Not Possible	Possible *1	Not		
ground terminale	Greater than 4 A	Possible *1		Not Possible	Possible		
Ground terminals		Possible	Possible	Possible *2	Possible *2	2.0 mm ²	9 to 10 mm

*1. Secure wires to the screwless clamping terminal block. Refer to the Securing Wires in the USER'S MANUAL for how to secure wires.
 *2. 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.

Dimensions

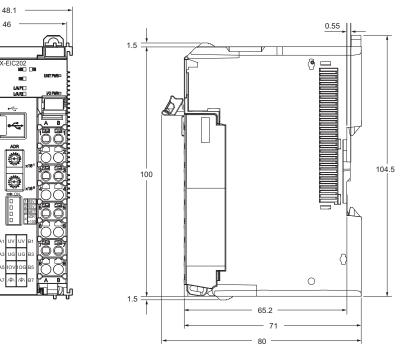
(Unit: mm)

• EtherCAT Coupler Unit Only

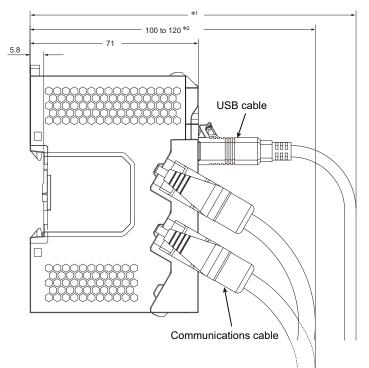
48.1 46

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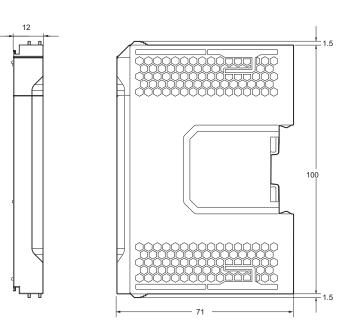
• With Cables Connected



- *1. This dimension depends on the specifications of the commercially available USB-certified 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	lan. No Model Manual		Application	Description	
W536	NX-EIC	NX-series EtherNet/IP Coupler Unit User's Manual	series Ether-Net/IP Coupler	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.	

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