

NX-series EtherNet/IP™ Coupler Unit

NX-EIC

CSM_NX-EIC_DS_E_4_7

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.



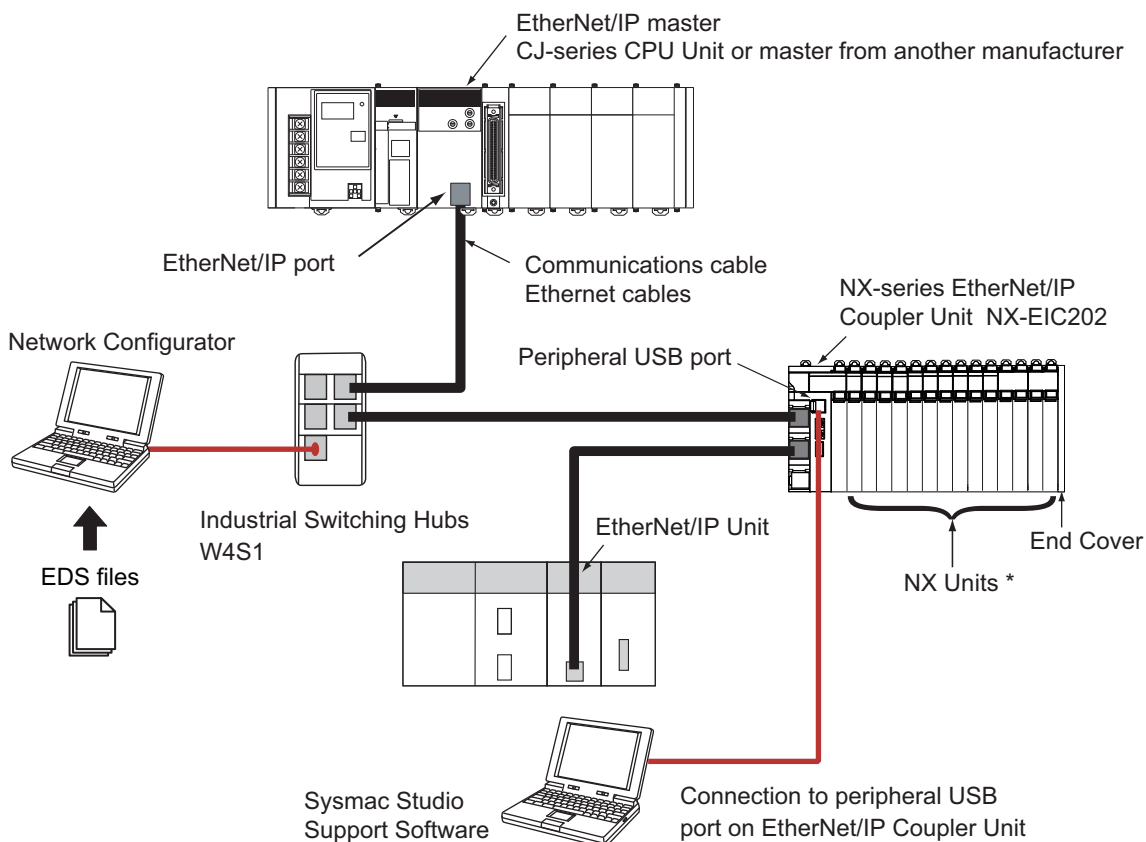
Features

- 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 |
|---|---------------------|----------------------------------|------------------|
|  | 1.60 W or lower | 10 A | NX-EIC202 |

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 | Number of licenses | Media | Model |
|---|---|---------------------|----------------------------|-------------------------|
| | | 1 license | --- | |
| Sysmac Studio Standard Edition Ver.1.□□ | 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. | --- (Media only) | Sysmac Studio (32-bit) DVD | SYSMAC-SE200D |
| | Sysmac Studio runs on the following OS. *1 Windows 7 (32-bit/64-bit version)/ Windows 8.1 (32-bit/64-bit version)/ Windows 10 (32-bit/64-bit version)/ Windows 11 (64-bit version) | --- (Media only) | Sysmac Studio (64-bit) DVD | SYSMAC-SE200D-64 |
| | This software provides functions of the Vision Edition. Refer to your OMRON website for details such as supported models and functions. | 1 license *2 *3 *4 | --- | SYSMAC-SE201L |

*1. Model "SYSMAC-SE200D-64" runs on Windows 10 (64 bit) or higher.

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

*3. 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.

*4. Multi licenses are available for the Sysmac Studio (3, 10, 30, or 50 licenses).

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-ID5142-1 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 | | |
|--------------------------|---|---|--------------|
| | 2CH | 4CH | 8CH |
| Temperature Control Unit | NX-TC2405, NX-TC2406, NX-TC2407, NX-TC2408 | 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 | |
|--------------------------------|--|----------------------|
| | 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 |
|-------------------------------|------------------------------------|
| Communications Interface Unit | NX-CIF101, NX-CIF105, NX-CIF210 |

IO-Link Master Unit

| Unit | Model |
|---------------------|-----------|
| IO-Link Master Unit | NX-ILM400 |

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.