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| PRODUCT  NEWS |  |  |  |  |
| Modifications Notices | Issue Date  Month Day, Year |
|  |

**Firmware modification notice associated with production changes and version upgrades for NX Series CPU Units (NX701, NX502, NX102, NX1P2)　and NJ Series CPU Units (NJ501, NJ301, NJ101)**

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| NX102-□□□□ |

[ Target Products ]

NX701 Series

NX502 Series

NX102 Series

NX1P2 Series

NJ501 Series

NJ301 Series

NJ101 Series

< Refer to the " **[ Details of applicable model ]** " . >

[ Effective Date ]

Effective as of our production in July, 2023.

[ Reason for change ]

To upgrade of products

[ Changes (Common) ]

| Before the change | After the change |
| --- | --- |
| <Change of unit versions printed on the label>  Example: NX502-1500  Unit Version: Ver.1.63  LOT No. xxxxxx　xxxx  Ver.1.63 HW Rev.A  PORT1 xxxxxxxxxxxx  PORT2 xxxxxxxxxxxx  PORT3 xxxxxxxxxxxx | Example: NX502-1500  Unit Version: Ver.1.64  LOT No. xxxxxx　xxxx  Ver.1.64 HW Rev.A  PORT1 xxxxxxxxxxxx  PORT2 xxxxxxxxxxxx  PORT3 xxxxxxxxxxxx  For the other models, refer to the “[ Details of applicable models ]”. |
| <Change of unit versions on the packaging box>  Example: NX502-1500  Unit Version: Ver.1.63 | Example: NX502-1500  Unit Version: Ver.1.64  For the other models, refer to the “[ Details of applicable models ]”. |

[ Changes (NX502-1XXX) ]

| Before the change | After the change |
| --- | --- |
| <Change of unit versions printed on the label>  The firmware version will be upgraded for the function enhancement described on the right. | Support CIP Safety routing via the built-in EtherNet/IP ports. The maximum number of CIP Safety connections is 128 in total. |

[ Changes (NX502-1XXX、NX102-XXXX、NX1P2-XXXXXX、NJ501-XXXX、NJ301-1XXX、NJ101-XXXX) ]

| Before the change | After the change |
| --- | --- |
| <Change of unit versions printed on the label>  The firmware version will be upgraded for the function enhancement described on the right. | Add EtherCAT communications instructions for diagnostic statistics.  EC\_GetMasterStatistics  Read the diagnostic statistics for the EtherCAT master.  EC\_ClearMasterStatistics  Clear the diagnostic statistics on the EtherCAT master.  EC\_GetSlaveStatistics  Read the diagnostic statistics of the EtherCAT slave.  EC\_ClearSlaveStatistics  Clear the diagnostic statistics on the EtherCAT slave. |

[ Changes (NX701-1XXX、NX502-1X00、NX102-XXXX、NJ501-1X00) ]

| Before the change | After the change |
| --- | --- |
| <Change of unit versions printed on the label>  The firmware version will be upgraded for the function enhancement described on the right. | The following functions are added in OPC UA Server.   * OPC UA for PackML specification support. Note) To install OPC UA for PackML, you need the OPC UA for PackML supported Sysmac Library (SYSMAC-XR101). * Extension of variable disclosure method The following three methods are available for network publication of OPC UA nodes. 1. Variable disclosure by user-defined function blocks 2. Variable disclosure by FB to be mapped to companion specification 3. Global variables (as before) 1.2. allows to separate EtherNet/IP and OPC UA public variables. * Role Function In the variable disclosure method extensions 1. and 2., access permissions to nodes can be managed based on user roles. * Improved multidimensional array functionality I In the variable disclosure method extensions 1. and 2., multidimensional arrays of the basic type of structure members are supported as variables that can be published to the network. * Array element count restriction abolished In the variable disclosure method extensions 1. and 2., the restriction on the number of array elements in the OPC UA function has been eliminated. * Deregulation of the volume of information In NX701-1XXX, the maximum number of variables that can be published in the entire network public variables is 10 times the current number (100,000). * Add the latest security policy |

[ Details of applicable model ]

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| Models | Specifications |
| NX701-1700 |  |
| NX701-1600 |  |
| NX701-1720 | Database Connection |
| NX701-1620 | Database Connection |
| NX502-1500 |  |
| NX502-1400 |  |
| NX502-1300 |  |
| NX102-1200 |  |
| NX102-1100 |  |
| NX102-1000 |  |
| NX102-9000 |  |
| NX102-1220 | Database Connection |
| NX102-1120 | Database Connection |
| NX102-1020 | Database Connection |
| NX102-9020 | Database Connection |
| NX1P2-1140DT |  |
| NX1P2-1140DT1 |  |
| NX1P2-1040DT |  |
| NX1P2-1040DT1 |  |
| NX1P2-9024DT |  |
| NX1P2-9024DT1 |  |
| NJ501-1500 |  |
| NJ501-1400 |  |
| NJ501-1300 |  |
| NJ501-R500 | Robotic Integrated Control |
| NJ501-R400 | Robotic Integrated Control |
| NJ501-R300 | Robotic Integrated Control |
| NJ501-R520 | Robotic Integrated Control, Database Connection |
| NJ501-R420 | Robotic Integrated Control, Database Connection |
| NJ501-R320 | Robotic Integrated Control, Database Connection |
| NJ501-5300 | NC Integrated Control |
| NJ501-1520 | Database Connection |
| NJ501-1420 | Database Connection |
| NJ501-1320 | Database Connection |
| NJ501-1340 | SECS/GEM Connection |
| NJ501-4500 | NJ Robotics Control |
| NJ501-4400 | NJ Robotics Control |
| NJ501-4300 | NJ Robotics Control |
| NJ501-4310 | NJ Robotics Control |
| NJ501-4320 | NJ Robotics Control, Database Connection |
| NJ301-1200 |  |
| NJ301-1100 |  |
| NJ101-1000 |  |
| NJ101-9000 |  |
| NJ101-1020 | Database Connection |
| NJ101-9020 | Database Connection |

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| Specifications in this product news are as of the issue date and are subject to change without notice.  Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products. |