



Product Data Sheet

OMRON CIP Communication Server

The Klinkmann **OMRON CIP Communication Server (OmronCIP)** is a Microsoft Windows 32-bit application program that acts as a communication protocol *Server* and allows other Windows programs to access to data from Omron SYSMAC NJ-series Controllers using the Ethernet/IP CIP (Common Industrial Protocol) Message Communications (Ethernet/IP explicit messaging).

Omron CIP Server uses *Connection based Explicit Messages* to read and write NJ-series Controller *Global Variables*, without adding any special programming to the Controller program. Message type - CIP class 3 connection messages (Large_Forward_Open Service). The *Global Variables definition file* exported from Omron Sysmac Studio programming software is used by Omron CIP Server to validate the item names and their properties.

Any Microsoft Windows program that is capable of acting as a DDE, FastDDE, SuiteLink or OPC *Client* may use the OMRONCIP Server.

There are following OMRONCIP Server versions available:

- OMRONCIP Suite Link & DDE Server,
- OMRONCIP OPC & DDE Server.

FEATURES

The OmronCIP Server connects to Omron SYSMAC NJ-series Controllers across an Ethernet/IP network using the Common Industrial Protocol (CIP).

The **OPC** support for OMRTOOLBUS Server OPC & DDE version conforms to OPC Data Access Custom Interface Specification 2.04.

The OMRTOOLBUS Server DDE & Suite Link version supports the Wonderware **Suite Link** communication protocol.

Minimizes system message traffic by dynamically calculating and optimizing poll lists to read only, client - requested items/points.

Supports multiple topics, allowing different data update rates for each PLC.

Provides a communication status flag for each topic.

Supports standard DDE among multiple applications.

SPECIFICATIONS

Hardware: For effective use the following are minimum requirements - CPU: 586 133 MHz or faster, 32MB RAM. May require more memory to run other Windows programs simultaneously.

Software: MS Windows XP, Windows 2003 Server, Windows 7, Windows 2008 Server, Windows 2012 Server.

Computer Interface: Any network card supporting the Ethernet network

Devices Supported: Omron SYSMAC NJ-series Controllers.

Maximum Connections: Up to xx Omron SYSMAC NJ-series Controllers can be connected.

Accessible Point Types:

The Omron CIP Ethernet/IP Communication Server supports item names corresponding with names of Global Variables used in Omron SYSMAC NJ-series Controller program and published to the network as inputs, outputs, or publish only variables.

OmronCIP Server uses Global Variables definition file exported from Omron Sysmac Studio programming software to validate the corresponding Topic (Controller) item names and their properties.

The item names supported by OmronCIP Server is exactly same as names of Global Variables used in Omron SYSMAC NJ-series Controller program, except for elements of arrays the following format is used: **arrayname[x]** where **arrayname** is the name of Global Variable (array) and **x** is the index of array.

ORDERING INFORMATION

Description / Order Number

OMRONCIP Suite Link & DDE Server Manual & Disk Set / DR 600 10

OMRONCIP OPC & DDE Server Manual & Disk Set / DR 600 11

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