Omron NJ Ethernet Driver
KEPServerEX – Communications Platform

The Omron NJ Ethernet Driver for KEPServerEX utilizes Omron's native EtherNet/IP protocol for fast and robust communications with the Omron Sysmac NJ family of devices. It also supports Common Industrial Protocol (CIP) routing to access controllers on separate networks. The Omron NJ Ethernet Driver works in conjunction with KEPServerEX to provide connectivity and communications with HMI, SCADA, Historian, MES, ERP, and countless custom applications.
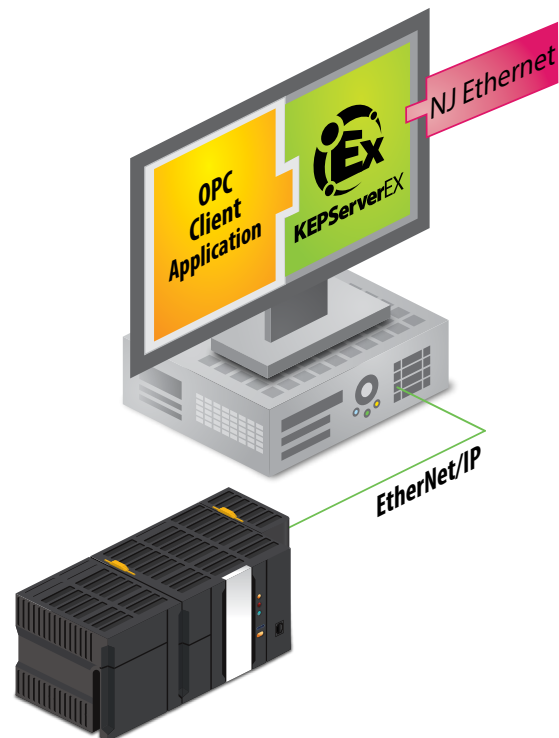
Protocol

- Omron Sysmac NJ EtherNet/IP (CIP over Ethernet) using TCP/IP.

Driver Features

- Supports 256 channels and 1024 devices per channel.

- Supports routing of communications with remote devices over various automation networks. Utilizes a CIP-configurable packet size from 500 bytes to 1996 bytes per packet.

- Supports read blocking and multi-servicing of writes to arrays to optimize performance when reading and writing multiple items within an array.

- Supports Client Arrays for referencing contiguous array elements by the client.

- Supports symbolic addressing of basic data types and structures.

- Supports Automatic Tag Generation, featuring direct interrogation of the controller and the ability to map structured data on the controllers into multi-level tag groups within KEPServerEX.

- Supports XML persistence.

Supported Devices

- Omron NJ301

- Omron NJ501

KEPServerEX

Proven Interoperability

- **150+ Communication Drivers with More than 250 Unique Protocols.**
- **Supports Open Standard Interfaces:**
  - **DDE Formats:** CF_Text, XL_Table, Advanced DDE, and Network DDE.
  - **OPC Alarms and Events (OPC AE):** 1.0 and 1.10.
  - **OPC Data Access (OPC DA):** 1.0a, 2.0, 2.05a, and 3.0.
  - **OPC .NET:** 1.20.2.
  - **OPC Unified Architecture (OPC UA):** 1.01.
  - **Thin-Client Terminal Server:** Windows Remote Desktop.
- **Supports Native Vendor Interfaces:**
  - Wonderware FastDDE & SuiteLink.
  - GE NIO for iFIX.
  - Oracle.
- **Advanced OPC and Channel Diagnostics.**

Centralized Communications

- **Single Server Platform for All Communications.**
- **Consistent, User-Friendly Interface.**
- **Automatic Tag Generation.**
- **CSV Import/Export.**
- **Advanced Tags for Linking and Computations.**
- **Write Optimization and Error Recovery.**
- **Advanced User Management.**

On-Demand Scalability

- **Plug and Play Device Drivers and Communication Options.**
- **Parallel Configuration and Live Operation via Separate Configuration and Runtime.**
- **Multi-Threaded Channel Architecture.**

Industrial Strength

- **OPC Certified Compliance.**
- **Strict Internal Quality and Control Standards.**
- **Media Level Redundancy.**
- **Endorsed by 15 Top OEMs.**

Requirements

Supported Operating Systems

- ☑ Windows 8
- ☑ Windows 7 Professional/Enterprise/Ultimate
- ☑ Windows Server 2012
- ☑ Windows Server 2008 and 2008 R2
- ☑ Windows Vista Business/Enterprise/Ultimate
- ☑ Windows Server 2003 SP2
- ☑ Windows XP Professional SP2

Minimum PC Hardware Requirements

- ☑ 2.0 GHz Processor.
- ☑ 1 GB installed RAM.
- ☑ 180 MB available disk space.
- ☑ Ethernet Card.
- ☑ Super VGA (800x600) or Higher Resolution Video.

About Kepware

Kepware Technologies is a private software development company headquartered in Portland, Maine. Kepware provides a portfolio of software solutions to help businesses connect diverse automation devices and software applications. From plant floor to wellsite to windfarm, Kepware serves a wide range of customers in a variety of international vertical markets including Manufacturing, Oil & Gas, Building Automation, Power Distribution, and more. Established in 1995 and now distributed in more than 100 countries, Kepware's software solutions help thousands of businesses improve operations and decision making.

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