Siemens Suite
SKU: KWP-SIEMS0-PRD

Component Drivers

- Siemens S5
- Siemens S5 3964R
- Siemens S7 MPI
- Siemens S7-200
- Siemens TCP/IP Ethernet
- Siemens TCP/IP Unsolicited Ethernet

Features

SUPPORTED DEVICES AND NETWORKS

- Siemens S7-200
- Siemens S7-300
- Siemens S7-400
- Siemens S7-1200
- Siemens S7-1500
- Siemens S5
- Siemens S5 (3964R)
- Siemens S7 MPI

Note: This is a partial list; unlisted devices may be supported. For a complete listing, please contact Kepware.

ADDITIONAL TECH INFO

- Radio Modem support for Siemens S5
- Ethernet Encapsulation for Siemens S5 and Siemens S5 3964R
- Multiple Connection support for each device for Siemens TCP/IP Ethernet
- CP-243, CP-343, and CP-443 TCP/IP communications sards support for Siemens TCP/IP Ethernet
- Access on PC/PG/OP ports for Siemens TCP/IP Ethernet
- Bit Level Access support for Siemens TCP/IP Ethernet
- Supports low-cost netLink Communications adapter for Siemens TCP/IP Ethernet
- Supports the EM241 modem module for Siemens S7-200
- Supports the PPI (11 bit) and PPM (10 bit) protocols for Siemens S7-200

Application Support

- OPC Data Access (OPC DA) Versions 1.0a, 2.0, 2.05a, and 3.0
- OPC Alarms and Events (OPC AE) Version 1.10
- OPC Unified Architecture (OPC UA) Version 1.01
- OPC .NET Service (OPC .NET) Version 1.00
- SuiteLink and FastDDE for Wonderware
- NIO Interface for iFIX
- DDE Format CF_Text and AdvancedDDE

Featured Suites

- Manufacturing Suite

Siemens S5

Product Overview

The Siemens S5 driver works in conjunction with KEPServerEX to exchange data between OPC clients and Siemens S5 PLCs using the AS511 protocol, which allows a direct connection to the programming port of the PLC. The programming port utilizes a Current Loop connection, requiring the use of either the supplied programming cable or an external RS-232 to Current Loop converter. For more information on wiring and recommendations for Current Loop converters, refer to the product manual. KEPServerEX automatically optimizes data acquisition based on client demand and ensures data integrity through extensive error handling.

Features

- Supports direct Peer-to-Peer Current Loop connections from the PC serial port
- Supports Ethernet Encapsulation, though the protocol's tight timing requirements may preclude the driver from working in all Ethernet network environments
- Supports multiple PLC connections when using Ethernet Encapsulation
- Supports the following Memory Types: I, Q, F, T, C, and Data Block Access by named type
- Supports all data types
- Modem Support
    - Automatic dial configuration
    - Multiple phone number management
- Communication Serialization

Protocols

- Siemens S5 AS511 Current Loop

Supported Devices

- Siemens S5-95U
- Siemens S5-100U, (CPU-100)
- Siemens S5-100U, (CPU-101)
- Siemens S5-100U, (CPU-103)
- Siemens S5-101U
- Siemens S5-115U, (CPU-941)
- Siemens S5-115U, (CPU-942)
- Siemens S5-115U, (CPU-943)
- Siemens S5-115U, (CPU-944)
- Siemens S5-115U, (CPU-945)
- Siemens S5-135U, (CPU-921)
- Siemens S5-135U, (CPU-922)
- Siemens S5-135U, (CPU-928)
- Siemens S5-155U, (CPU-946)
- Siemens S5-155U, (CPU-947)
- Siemens S5-90U

Siemens S5 3964R

Product Overview

The Siemens S5 3964R driver works in conjunction with KEPServerEX to exchange data between OPC clients and Siemens S5 PLCs using the 3964R protocol. KEPServerEX automatically optimizes data acquisition based on client demand and ensures data integrity through extensive error handling.

Features

- Supports the following Memory Types: I, Q, F, T, C, and Data Block Access
- Supports all data types
- Supports Ethernet Encapsulation
- Modem Support
    - Automatic dial configuration
    - Multiple phone number management

Protocols

- Siemens S5 3964(R)

Supported Devices

- Siemens S5-115U, (CPU-941)
- Siemens S5-115U, (CPU-942)
- Siemens S5-115U, (CPU-943)
- Siemens S5-115U, (CPU-944)
- Siemens S5-115U, (CPU-945)
- Siemens S5-135U, (CPU-921)
- Siemens S5-135U, (CPU-922)
- Siemens S5-135U, (CPU-928)
- Siemens S5-155U, (CPU-946)
- Siemens S5-155U, (CPU-947)

Additional Tech Info

- This driver works with devices that support the 3964 or 3964R protocol and use the RK 512 computer link program. It is intended for use with Siemens S5 PLCs communicating via a communications processor card (such as the CP 544) configured to use the 3964R or 3964 protocols and the RK 512 computer link. Multiple CPU systems are supported.
- This driver is not designed to respond to unsolicited data from the PLC.

Siemens S7 MPI

Product Overview

The Siemens S7 MPI driver works in conjunction with KEPServerEX to exchange data between OPC clients and Siemens S7-300 and S7-400 PLCs using the MPI protocol. The MPI interface requires the use of the Siemens S7 MPI serial port adapter available from your Siemens dealer. The serial port MPI adapter allows KEPServerEX to communicate with Siemens S7-300 and S7-400 PLCs at either 19.2 KBaud or 38.4 KBaud. The driver talks directly to the MPI adapter cable without additional software packages or libraries. KEPServerEX automatically optimizes data acquisition based on client demand and ensures data integrity through extensive error handling.

Features

- Supports Ethernet Encapsulation
- Supports multiple Master Multi-drop
- Automatically handles network configuration
- Supports Stations 0-126
- Supports the following Memory Types: I, E, Q, A, M, F, T, C, Z, and Data Block Access
- Supports bit-level access
- Supports all data types
- Supports arrays for byte, char, word, short, DWORD, long, float and LBCD data types
- Modem Support
    - Automatic dial configuration
    - Multiple phone number management

Protocols

- Multi Point Interface (MPI) S7-300/400 Communications Protocol

Supported Devices

- S7-300 - Family
- S7-400 - Family

Siemens S7-200

Product Overview

The Siemens S7-200 driver works in conjunction with KEPServerEX to exchange data between OPC clients and Siemens S7-200 PLCs using the PPI (11 bit) or PPM (10 bit) protocol. It includes direct support for the EM241 Modem Module. KEPServerEX automatically optimizes data acquisition based on client demand and ensures data integrity through extensive error handling.

Features

- Supports the EM241 Modem Module
- Supports the PPI (11 bit) and PPM (10 bit) protocols
- Supports Single Master Multi-drop RS485
- Supports Stations 0-126
- Supports Communication Serialization
- Supports the following Memory Types: I, Q, M, S, V, T, C, HC, AI, and AQ
- Supports all data types
- Modem Support
    - Automatic dial configuration
    - Multiple phone number management

Protocols

- Point-to-Point (PPI) S7-200 Communications Protocol
- Point-to-Point Modem (PPM) S7-200 Communications Protocol

Supported Devices

- Any Siemens S7-200 devices
- S7-212
- S7-214
- S7-215
- S7-216
- S7-224

Additional Tech Info

The driver normally operates using the standard 11 bit PPI protocol. If the use of the EM 241 modem module is required, the S7-200 PPM model must be selected. The S7-200 PPM model allows the driver to operate in a 10 bit mode, which is more compatible with a wide range of off-the-shelf modems. The 10 bit PPM mode can also be used directly on the PLC's programming port. To enable the 10 bit PPM mode, set the S7-200 programming cable 10 bit mode.

Siemens TCPIP Ethernet

Product Overview

The Siemens TCP/IP Ethernet driver works in conjunction with KEPServerEX to exchange data between OPC clients and Siemens S7-200, S7-300, S7-400, and S7-1200 PLCs using the TCP/IP Ethernet protocol. The driver talks directly to the S7 PLC using a standard PC network interface card, and does not require additional software packages or libraries. Specialized block read and write optimizations automatically increase the speed of many applications when using CP243, CP343, and CP443 communications processors.

The Siemens TCP/IP Ethernet driver also supports the netLink adapter cable.

Features

- Supports multiple connections for each device
- Supports the CP-243, CP-343, and CP-443 TCP/IP Communications Cards
- Supports access on PC/PG/OP access ports
- Supports the following Memory Types: I, E, Q, A, M, F, T, C, Z, and Data Block Access
- Supports Bit Level Access
- Supports the low-cost NetLink communications adapter
- Supports the NetLink Configuration Utility (Gateway from Ethernet to S7 MPI)
- Supports Automatic Tag Generation from a Simatic STEP 7 project for S7-300 and S7-400 devices

Protocols

- Siemens Industrial Ethernet

Supported Devices

- S7-1200- Family
- S7-1500- Family
- S7-200 - Family
- S7-300 - Family
- S7-400 - Family
- netLink -MPI - S7-400
- netLink 50-MPI - S7-300
- netLink 50-MPI - S7-400
- netLink-MPI - S7-300
- netTap 40-MPI - S7-300
- netTap 40-MPI - S7-400

TIA Portal Exporter Utility

The TIA Portal Exporter Utility enables users with Siemens S7-300, S7-400, S7-1200, or S7-1500 controllers programmed with Siemens TIA Portal to automatically generate the specific tags they need for their KEPServerEX projects. Offered at no additional cost as a standalone installation, it provides compatibility with TIA Portal V13 SP1, V13 SP2, and V14.

The TIA Portal Exporter Utility features the ability to:

- Select a specific controller within the Siemens TIA Portal project
- Select tags from all tag tables, data blocks, UDTs, and function blocks
- Search/filter on tag name, address, or data type
- Import the specific tags required in a KEPServerEX project

Siemens TCPIP Unsolicited Ethernet

Product Overview

The Siemens TCP/IP Unsolicited Ethernet driver was designed specifically for use with the KEPServerEX communications platform. It acts as a simulated Siemens PLC, and is intended for simulation of Siemens S7-300. The mode of communications is S7 Messaging on Industrial Ethernet (ISO 8073 Class 0) over TCP/IP as defined in RFC1006.

The Siemens TCP/IP Unsolicited Ethernet driver does not require special libraries or hardware. All that is needed is a standard Ethernet card. Devices require specialized ladder programming to communicate with this driver.

Features

- Supports 256 virtual devices
- Supports the SFB14-GET and SFB15-PUT commands

Protocols

- Siemens Industrial Ethernet

Supported Devices

- Simulated S7-300 (Slave)