Allen-Bradley Suite

SKU: KWP-ABSTE0-PRD

Component Drivers

- Allen-Bradley ControlLogix Ethernet
- Allen-Bradley ControlLogix Unsolicited
- Allen-Bradley Data Highway Plus
- Allen-Bradley DF1
- Allen-Bradley Ethernet
- Allen-Bradley Micro800 Ethernet
- Allen-Bradley Micro800 Serial
- Allen-Bradley Unsolicited Ethernet

SUPPORTED DEVICES AND NETWORKS

- CompactLogix
- ControlLogix
- FlexLogix
- SoftLogix
- MicroLogix Family including 1100
- PLC-5 Family
- SLC 500 Family
- DH+ Gateway: PLC-5
- Micro800 Series
- Micro SoftPLC ControlNet Gateway: PLC-5
- ENI: CompactLogix
- ENI: Controllogix
- ENI: FlexLogix
- ENI: MicroLogix
- ENI: PLC-5
- ENI: SLC 500 Fixed I/O
- ENI: SLC 500 Modular I/O
- Smart SoftPLC
- Hardbook SoftPLC

Note: This is a partial list; unlisted devices may be supported

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

Allen-Bradley ControlLogix Ethernet

The Allen-Bradley ControlLogix Ethernet device driver works in conjunction with KEPServerEX to provide data exchange between OPC/DDE clients and Allen-Bradley ControlLogix controllers via Ethernet.

The ControlLogix Ethernet Device Driver supports communications with the 1761-NET-ENI, Micrologix Series, SLC 500 Fixed I/O Processor, SLC 500 Modular I/O Series, and PLC-5 Series. The driver also enables connectivity with the ControlLogix 5500 Series, CompactLogix 5300 Series, and FlexLogix 5400 Series that support 1761-NET-ENI Series B. Please see the Allen-Bradley ControlLogix Ethernet Manual for more information.

This driver does not require a Rockwell Automation RSLinx license.

Features

- Supports larger packet sizes for ControlLogix Controllers v20 and higher (configurable up to 4000 bytes) for improved performance.
- Serial Gateway support with unconnected messaging, which provides access to ControlLogix, CompactLogix, FlexLogix, and SoftLogix devices via the ControlLogix serial port
- EtherNet/IP Gateway support, which provides access to EtherNet/IP-enabled MicroLogix, SLC, and PLC 5 devices via the ControlLogix Ethernet Communications module
- ControlLogix Performance Enhancements
- Supports ControlLogix Gateway access via Data Highway Plus and ControlNet networks
- Supports device routing, which allows access to ControlLogix, PLC 5, and SLC 500 PLCs via any connecting network topology
- Supports Automatic Tag Database Generation through online "Connect to Device" or file-based .L5K, and .L5X
- Supports Allen-Bradley Logix Tag Database Generation
- Supports access to all pre-defined Structure Data Types (such as CAM, AXIS, and so forth)
- Connected Messaging for Read/Write transactions
- Note: This driver is part of our Allen-Bradley Suite. Purchasing either the Allen-Bradley ControlLogix Ethernet, Allen-Bradley DF1, Allen-Bradley DH+, Allen-Bradley Unsolicited, or Allen-Bradley PLC5/SLC505 Ethernet Driver entitles you to all of the drivers

Protocols

- EtherNet/IP

Supported Devices

- ControlLogix 5550
- ControlLogix 5553
- ControlLogix 5555
- ControlLogix 5561
- ControlLogix 5562
- ControlLogix 5563
- ControlLogix 5572
- ControlLogix 5573
- ControlLogix 5574
- ControlLogix 5575
- CompactLogix 5320
- CompactLogix 5330
- FlexLogix 5433
- FlexLogix 5434
- PLC 5 Control Net
- PLC 5/20C
- PLC 5/40C
- PLC 5/80C

- SLC 500 Fixed I/O Processor
- MicroLogix 1000
- MicroLogix 1100
- MicroLogix 1200
- MicroLogix 1400
- MicroLogix 1500
- SLC 5/01
- PLC 5/10
- PLC 5/15
- PLC 5/20
- PLC 5/25
- PLC 5/30
- PLC 5/40
- PLC 5/60
- PLC 5/80
- SLC 5/02
- SLC 5/03
- SLC 5/04
- CompactLogix 5323
- CompactLogix 5331
- CompactLogix 5332
- CompactLogix 5335
- CompactLogix 5345
- CompactLogix 5370
- SoftLogix 5810
- SoftLogix 5830
- SoftLogix 5860
- SLC 5/05
- ControlLogix 5580
- CompactLogix 5380

Additional Tech Info

SUPPORTED DEVICE DETAILS

- **ControlLogix 5550, 5553, 5555, 5561, 5562, 5563, 5572, 5573, 5574,** and **5575** via the 1756 ENET/ENBT Module, Serial Gateway, or 1761 NET-ENI Series B using Channel 0 and **5580** via 1756-L83 and 1756-L85 (28.011)
- **CompactLogix 5320, 5323, 5330, 5331, 5332, 5335, 5345,** and **5370** via the built-in EtherNet/IP port on processors with E suffix, Serial Gateway, or 1761-NET-ENI Series B using Channel 0 and**5380** via 5069-L320ER (28.011) or 5069-L340ERM
- **SoftLogix 5810, 5830,** and **5860** processors via the SoftLogix EtherNet/IP Messaging Module or Serial Gateway
- **FlexLogix 5433** and **5434** processors via the 1788-ENBT Ethernet Daughtercard, Serial Gateway, or the 1761-NET-ENI Series B using Channel 0
- **PLC 5 Control Net** via the DH+ Gateway, 1761-NET-ENI, or EtherNet/IP Gateway
- **PLC 5/10, 5/15, 5/20, 5/20C, 5/25, 5/30, 5/40, 5/40C, 5/60, 5/80,** and **5/80C** via the ControlNet Gateway, 1761-NET-ENI, or EtherNet/IP Gateway
- **SLC 500 Fixed I/O Processor** via the 1761-NET-ENI or EtherNet/IP Gateway
- **SLC 5/01, 5/02, 5/03, 5/04,** and **5/05** Modular I/O Processor via the DH+ Gateway, 1761-NET-ENI, or EtherNet/IP Gateway
- **MicroLogix 1000, 1100, 1200, 1400,** and **1500** via the 1761-NET-ENI, MicroLogix 11/1400 Channel 1 (Ethernet), or EtherNet/IP Gateway

Featured Suites

- Manufacturing Suite

Allen-Bradley Data Highway Plus

The Allen-Bradley Data Highway Plus driver for KEPServerEX supports the Allen-Bradley SLC 500 Family and PLC5 Series PLCs. Address ranges are open to support future models of these device series.

This driver does not require a Rockwell Automation RSLinx license.

Features

- Supports two network types: Data Highway 485 and DH+
- Supports 6 different board types: KT, KTX (D), PKTX (D) and PCMK/B by Allen-Bradley and 5136-SD-ISA and 5136-SD-PCI by SST
- Supports PCI card interrupts
- Open Address ranges

Protocols

- DH485 / DH+ (Data Highway and Data Highway Plus)

Supported Devices

- SLC 5/01
- PLC 5/10
- PLC 5/15
- PLC 5/20
- PLC 5/20E
- PLC 5/25
- PLC 5/30
- PLC 5/40
- PLC 5/40E
- PLC 5/60
- PLC 5/80
- PLC 5/80E
- SLC 5/02
- SLC 5/03
- SLC 5/04

Featured Suites

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Allen-Bradley ControlLogix Unsolicited

The Allen-Bradley ControlLogix Unsolicited driver for KEPServerEX acts as a simulated Allen-Bradley ControlLogix PLC allowing unsolicited communications between KEPServerEX and Allen-Bradley Logix devices, eliminating unnecessary PLC "Read" communications. The driver supports the CIP Data Table Read and Write Messages from the Logix family of controllers. The ControlLogix Unsolicited driver will only transfer data when being read or written to by a Logix master. The data acquisition is automatically optimized by KEPServerEX based on the master demands.

Features

- Automatic Tag Database Generation
- Symbolic Read/Write support
- Fragmented and Un-fragmented Read/Write support
- Unconnected message support
- Advanced symbolic tag addressing support
- Advanced error handling
- ODVA compliant
- Connected Messaging support
- Identity requests support over TCP and UDP

Protocols

- EtherNet/IP

Supported Devices

- Logix5000 Controller

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Allen-Bradley DF1

The Allen-Bradley DF1 device driver works in conjunction with KEPServerEX to provide data exchange between OPC/DDE clients and Allen-Bradley PLC5(20)/SLC500/MicroLogix compliant PLCs via DF1. The DF1 driver has support for complex function blocks in the MicroLogix 1200/1500 PLCs. Half Duplex operation supports wide area radio modem links for all PLC types. KEPServerEX automatically optimizes your data acquisition based on client demand. Data integrity is ensured with our extensive error handling.

This driver does not require a Rockwell Automation RSLinx license.

Features

- Supports complex function blocks in the MicroLogix 1200/1500 PLCs
- Allen-Bradley DF1 Radio Modem support
- Half Duplex operation supports wide area radio modem links for all PLC types
- The Ethernet Encapsulation mode has been designed to provide communications with serial devices connected to terminal servers such as the Digi One IA or Kepware NetSLX on your Ethernet network
- Supports the USB-based DF1 to DH Plus Converter: Allen-Bradley Catalog Number 1784-U2DHP
    - Device must also support 1784-U2DHP
- Modem Support
    - Automatic Dial Configuration
    - Multiple Phone Number Management
- Communication Serialization

Protocols

- Allen-Bradley DF1
- DF1 Full Duplex
- DF1 Half-Duplex Master
- DF1 Radio Modem

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Allen-Bradley Ethernet

TheAllen-Bradley Ethernet device driver works in conjunction with KEPServerEX to provide data exchange between OPC/DDE clients and Allen-Bradley PLC5/SLC500 compliant PLCs via Ethernet. KEPServerEX automatically optimizes your data acquisition based on client demand. Data integrity is ensured with our extensive error handling.

This driver does not require a Rockwell Automation RSLinx license.

Features

- All memory types and data types supported
- Array support
- Multithreaded design allows for simultaneous messaging with multiple PLCs
- 1785 ENET may require PLC firmware upgrades

Protocols

- Allen-Bradley Ethernet

Supported Devices

- PLC 5/10
- PLC 5/15
- PLC 5/20
- PLC 5/25
- PLC 5/30
- PLC 5/40
- PLC 5/60
- PLC 5/80
- SLC 5/01
- SLC 5/02
- SLC 5/03
- SLC 5/04
- SLC 5/05 Open
- PLC 5/20E
- PLC 5/40E
- PLC 5/80E
- Hardbook SoftPLC
- Micro SoftPLC
- Smart SoftPLC

Featured Suites

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Allen-Bradley Micro800 Ethernet

The Allen-Bradley Micro800 Ethernet device driver works in conjunction with KEPServerEX to provide data exchange between OPC/DDE clients and Allen-Bradley Micro800 control systems via Ethernet.

Features

- Supports CIP Watchdog: Specify the amount of time that a connection can remain idle before being closed by the controller.
- Supports Project Options: Specify the data type that will be assigned to a Client/Server Tag when the default type is selected during tag addition, modification, or import.
- Supports Data Access Options: Specify the number of atomic array elements that will be read in a single transaction.
- Supports Native Tags, including Global Tags, Program Tags, and Structured Tags.
- Supports Advanced Addressing.
- Optional UDT substructure aliasing and array element blocking for performance and communications optimization.

Protocols

- EtherNet/IP

Supported Devices

- Allen-Bradley Micro850

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Allen-Bradley Micro800 Serial

The Allen-Bradley Micro800 Serial device driver works in conjunction with KEPServerEX to provide data exchange between OPC/DDE clients and Allen-Bradley Micro800 control systems via RS-232/RS-485.

Features

- Ethernet Encapsulation
- CIP Watchdog
- Advanced Addressing Support
- Global Tag Support
- Program Tag Support
- Structured Tag Support

Protocols

- Rockwell Automation Fragmentation Protocol (CIP over DF1)

Supported Devices

- Allen-Bradley Micro810
- Allen-Bradley Micro830
- Allen-Bradley Micro850

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Allen-Bradley Unsolicited Ethernet

The Allen-Bradley Unsolicited Ethernet device driver works in conjunction with KEPServerEX to provide data exchange between OPC/DDE clients and Allen-Bradley PLC-2 compliant PLCs via Ethernet. The Unsolicited driver allows an OPC client application to appear as 1 to 256 Allen-Bradley devices on the network. The slave mode allows the server to receive data by exception from an Allen-Bradley master. As with any slave device, the Allen-Bradley Unsolicited driver will only transfer data when being read or written by a master. KEPServerEX automatically optimizes your data acquisition based on client demand. Data integrity is ensured with our extensive error handling.

Features

- Acts as a single simulated Allen-Bradley PLC-2
- Up to 256 devices may connect to the simulated PLC-2 at any time
- Sockets used by incoming connections are aged according to activity level
- All major memory and data types supported

Protocols

- Allen-Bradley Ethernet

Supported Devices

- Allen-Bradley PLCs programmed to send PLC-2 type commands.

Additional Tech Info

SUPPORTED DEVICE DETAILS

Devices need not be PLC-2s. Consult your hardware programming manual.

Featured Suites

- Manufacturing Suite