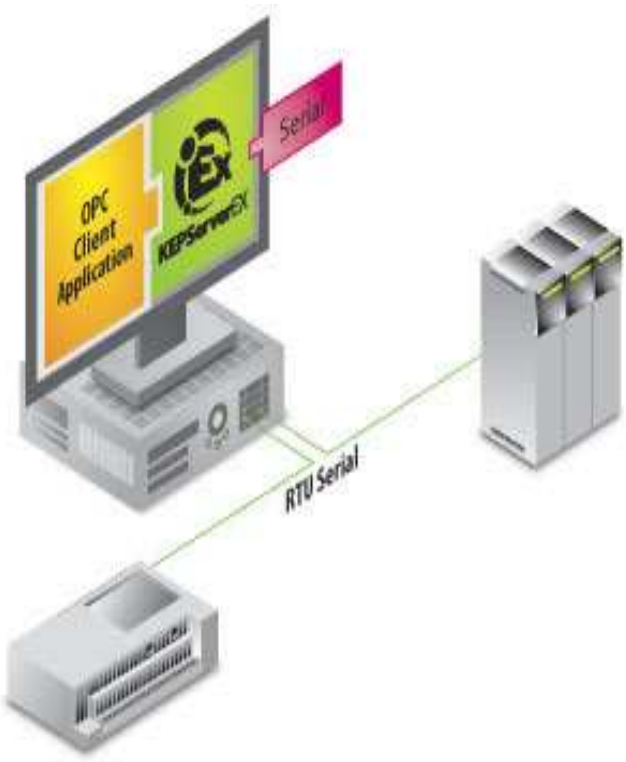
# Modbus Serial OPC Server

Kepware's Modbus RTU device driver works in conjunction with our OPC Server KEPServerEX, to provide data exchange between OPC Clients and Modbus RTU protocol compliant PLCs and Devices. Special handling has been added to support the native memory formats of the Omni Flow computer including string support. Additional configuration parameters allow this driver to tailored to a wide range of Modbus RTU compatible devices including JBUS. KEPServerEX automatically optimizes your data acquisition based on client demand. Data integrity is ensured with our extensive error handling.




The Modbus RTU driver now offers direct integration with Modicon Concept and ProWORX programming packages. If you are using either of these packages you will be able to directly import the tags used in your PLC application directly into KEPServerEX. This time saving step makes all of the relevant PLC data available to your OPC client applications instantly.

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**The Modbus OPC Server Suite includes:**

- Modbus ASCII OPC Server
- Modbus PLUS OPC Server
- Modbus OPEN Ethernet OPC Server
- Modbus RTU Slave Serial OPC Server
- Modbus RTU Serial OPC Server

**The Modbus RTU Serial OPC Driver is also included in the following:**

- Building Automation Suite
- IT and Infrastructure Suite
- Manufacturing Suite
- Oil and Gas Suite
- Power Distribution Suite

**Plug-in Driver Features:**

- Supports Ethernet Encapsulation
- Supports the TSXCUSBMBP USB adapter for the Modbus Plus Network
- Modbus RTU Multi-drop Supported
- Automatic Tag Database Generation
- Supports Broadcast Messages using device ID 0
- Full Address Range Support ( 0 - 65535 )
- Hex Addressing Support (0-FFFF)
- User Definable Read Block Sizes
- Adjustable Address Base( 0 or 1 )
- Word Order Swapping for Floating Point and Longs
- Byte Order Swapping on all 16 bit and 32 bit values
- Adjustable RTS Flow timing for Radio Modems
- Supports all memory types and data types
- Support accessing Holding register memory as string data with HiLo/LoHi byte order
- RTU Functions used: 01, 02, 03,04, 05, 06, 16
- Supports tag import from Concept and ProWORX programming packages

**Application Support**

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

**Supported Devices**

- Modbus compatible devices
- Elliott Flow Computer
- Magnetek GPD 515 Drive
- Omni Flow Computer
- Daniel S500 Flow Computer
- Dynamic Fluid Meter
- TSXCUSBMBP USB Adapter

**Protocol**

- Modbus RTU Protocol

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**Additional Information and Resources:**

- KEPServerEX OPC Server Features
- Modbus RTU Serial Revision History
- KEPServerEX Revision History
- Connecting Visual Basic to Modbus RTU Serial
- System Requirements
- OPC Compliancy Testing
- KEPServerEX v5 Licensing
- Upgrade Pricing

**Related Products:**

- Manufacturing Suite
- LinkMaster OPC Bridging Software
- DataLogger Option for KEPServerEX
- Advanced Tag Option for KEPServerEX
- RedundancyMaster OPC Redundancy Software
- Service Agreement and Support Program
- Service Agreement Pricing Options
- Legacy Pricing Policy

**Drivers "Plug-in" to KEPServerEX**

The Modbus RTU Serial OPC Server is a plug-in device driver for KEPServerEX. A "Plug-in" is a software program (.dll) that extends the capabilities of KEPServerEX to fit the communication requirements of a specific device or system. The plug-in driver handles all of the proprietary communications between the device/system and the OPC layer, KEPServerEX. The KEPServerEX core then handles all OPC and Proprietary Client communications between the plug-in driver and the Client application. For a complete list of features and capabilities please visit the KEPServerEX overview page.

- OPC Foundation Certified - The Best of OPC on the Market
- High Performance - Multi Threaded - Runtime Configurable
- Detailed Protocol Diagnostics - Communications Trace
- Detailed OPC Diagnostics - Communications Trace
- Native Interfaces - Client Connectivity Beyond the OPC Standards
- Stratus High Availability Computing - Certified
- Marathon High Availability Computing - Certified
- Kepware 2 Hour Demonstration Mode on all Products