A True Plug-and-Play OPC Server

Looking for a fast and flawless controls solution? Want your control systems centralized, easy-to-manage and able to take advantage of all the components you already have? WindSRV, also known as KEPServerEX, is an OPC server, that provides direct connectivity between client applications and IDEC PLCs. It’s a true plug-and-play OPC Server with effortless data management, acquisition, monitoring and control.

Industrial strength, Easy-to-use

The intuitive interface makes connecting to IDEC PLCs so easy that within minutes you can be providing data to your application. KEPServerEX maximizes the promise of OPC through the use of a single server interface, ensuring:

- Shorter product learning curves
- Reduced system training and maintenance costs
- Improved network reliability, regardless of the control system in use

Controls at your fingertips

A maximum of 100 MicroSmart/MicroSmart Pentra PLCs can be connected to the server. Imagine having the ability to centrally monitor and control your whole plant, all at your fingertips. KEPServerEX is designed to allow quick and easy configuration so you can communicate with your devices.
Features and performance

Application Connectivity Support
- OPC Data Access Version 1.0a, 2.05a, 3.0
- Fastdke & Suitelink for Wonderware
- SSE Format CF_Text, DDE Format Advanced DDE

Modem Support
KEPServerEX supports the use of dial-up modems to connect to remote devices. Special Modem Tags are also available when a dial-up network modem is created. These tags can be used to dial a remote device, monitor the modem status while connected, and terminate the call.

Ethernet Encapsulation
This allows KEPServerEX serial drivers to communicate to devices with serial communication over Ethernet. The driver will communicate in Ethernet Encapsulation mode over the Ethernet to a Device Server, which then provides serial communication to the devices. This allows you to incorporate a MicroSmart Pentra, with Web Server module, into the Ethernet network.

Quick Client
OPC Quick Client allows initial connectivity testing. Using Quick Client, you can access all data available to the server application, including System, Diagnostic, and User-defined tags. After you’ve created a simple KEPServerEX project, auto launch Quick Client from the server toolbar to test your device connection.
It’s as simple as 1-2-3

KEPServerEX is designed to allow quick and easy configuration of your communications.

1. Define Channel Object
2. Define Device Object
3. Tag Object

Step 1
Select a driver

Each protocol or driver used in the KEPServerEX server and project is referred to as a channel. Channels are specific communication drivers such as RS232C, Ethernet or Dial-up modems. A project can consist of many channels.

Step 2
Specify the device

Configure the PLC you want to communicate with the server. KEPServerEX supports MicroSmart Pentra, MicroSmart, OpenNet controllers and even older FA and Micro3 series.

Step 3
Create tags

A tag is memory allocation in the PLC. You can monitor input, outputs, internal relays and data registers. You can also create a Tag Group that allows you to monitor each set of PLC parameters such as I/O status, alarm conditions, etc.
**Quick Client**

Once tags or tag groups are created in your project, click on the Quick Client icon to start monitoring these parameters. Quick Client is a quick way to determine if the server is connected to the PLCs.

**Auto Demotion**

This device allows a driver to temporarily place a KEPServerEX device off-line in the event that a physical device is not responding. By placing a non-responsive device off-line, the driver can continue to optimize communication with the device.

**Tag Creation and Management**

Tag Grouping, Drag and Drop editing and CSV Import/Export are basic features to make it easier for you to organize your next project. Another feature that you will find useful is Automatic Tag Database Generation. KEPServerEX supports automatic regeneration of tags for select communication drivers. Drivers that support this feature can either read tag information directly from a device or generate tags from stored tag data. You no longer need to enter OPC tags into the server.

**On-Line Full-time**

KEPServerEX is on-line all the time, allowing your application to be modified while the server is communicating with client applications. Almost all parameters can be changed while the server is running, including com port and baud rate configuration, along with tag editing and additions.

**Supports MicroSmart Pentra 32-bit registers and floating point data**

KEPServerEX version 5 now supports MicroSmart Pentra complete addressing, including 32-bit data and floating point data.
Using Microsoft Excel as Client Applications

Using Microsoft Excel, available on most PCs, customers can create a visual central monitoring station quickly and effectively. System status such as sensor inputs, motor outputs, etc. can be monitored and controlled. It's a cost-effective, real-time central monitoring system that can be customized to your needs. With just KEPServerEX server and Excel, up to 100 PLCs can be monitored and controlled in real time.

Sample application using Microsoft Excel

Input and output status such as switches, sensors, flow meters, E-stops, motors, etc. can be monitored in real time. Output devices such as motors and valves, can be controlled with just a single click.

Using the graph feature in Excel, users can create a custom presentation to monitor water tank levels or production counts. And that isn’t all, there is so much more you can do and create using Excel.
What you need

Part Numbers and Pricing

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>List Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>WINDSRV-1</td>
<td>Single device connection. One PLC can be connected to the server.</td>
<td>$295</td>
</tr>
<tr>
<td>WINDSRV-4</td>
<td>Four device connections. Up to 4 PLCs can be connected to the server.</td>
<td>$495</td>
</tr>
<tr>
<td>WINDSRV-U</td>
<td>Unlimited device connections. Up to 100 PLCs can be connected to the server.</td>
<td>$795</td>
</tr>
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</table>

KEPServerEX System Requirements

Supported Operating Systems:
- Windows 98
- Windows NT
- Windows 2000
- Windows Server 2003
- Windows XP
- Windows Vista
- Windows 7

PC Hardware:
- Minimum
  - Pentium 200 MHz CPU
  - 32 MB RAM
  - 10 MB of free hard drive space
- Recommended
  - Pentium 400 MHz CPU
  - 64 MB RAM
  - 10 MB of free hard drive space

MicroSmart Pentra PLC

- Fastest through-put micro PLC in the market
- Supports up to 7 communication ports
- Built-in Modbus RTU/ASCII Master and Slave for each port
- 56 PID Loops with Auto-tune
- Expandable up to 512 local I/Os
- Create networks with up to 95,000 I/O points
- Powerful and intuitive programming software
- Global Standards: CE, cULus, Class 1 Div. 2, ABS Type Approved

MicroSmart Pentra can create a network with up to 95,000 I/O

Expanding your system has never been easier! MicroSmart Pentra is the only micro PLC on the market that allows your control systems to seamlessly communicate with up to 7 serial devices. It has the capability to network up to ten thousand I/O points and even talk multiple communication protocols on the same system, making it simple to create a subsystem network using IDEC Datalink protocol or the standard Modbus RTU/ASCII protocols.

For more information visit:
http://smart.IDEC.com
PLC and OI Training Seminars

IDEC training courses take a hands-on approach using real world examples to enhance your learning and retention. Our 3-day training course consists of two days of basic and advanced PLC training and one day of OI touchscreen training. At completion of training, you will understand how a PLC operates, as well as be able to program, debug and maintain IDEC automation systems.

Earn Continuing Education Units (CEU)

Through a collaboration with IEEE, you can now further your education without compromising quality for convenience. When attending our 3-day PLC/OI training seminar, you can qualify and receive up to 2.4 CEUs (24PDHs).

For seminar schedule and location visit: http://training.IDEC.com

Attend a 3-Day Seminar and receive a Training Package*

- Learn to program IDEC Automation products in just 3 days
- Real-world application examples
- Hands-on training

*Special One-Time Offer: Purchase 3 Day Training Seminar and receive a Training Package! Each training package contains everything you need to enhance and maximize your learning experience.

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