

# Modbus/TCP OPC Server

Easy and Secure Access to Modbus  
Devices and Systems

## Product Information

### Excellence in OPC

The Modbus/TCP OPC server from Softing is extremely flexible. The latest software from the OPC specialist can be used as both a Modbus client and a Modbus server. The Modbus/TCP OPC server leaves nothing to be desired. It enables access to the I/O registers and coils of all types of Modbus devices. The OPC server has been designed for fast and convenient configuration, operation and commissioning.

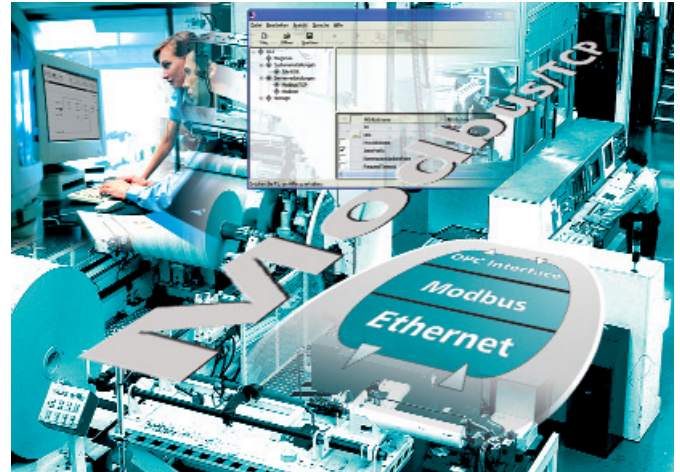
### Description

The OPC server enables fast, convenient access to the I/O registers and coils of any Modbus devices via an Ethernet interface. The server supports all OPC client-enabled software, including Citect, GE Cimplicity, GE Fanuc iFix, Iconics Genesis, Rockwell RSView, Siemens WinCC and Wonderware InTouch.

One particular advantage of the solution is the ability to integrate the Modbus/TCP OPC server as a Modbus device in an existing Modbus system. In this way, the OPC server can provide access to the data in a Modbus control system or a controller.

#### Benefits for you

- Convenient access to any Modbus devices and systems via Ethernet
- 100% OPC compliance guarantees interoperability with any OPC client-enabled software
- Suitable for retrofitting data access connections to existing systems
- Fast configuration thanks to self-explanatory user interface and support for alias tags
- Faster, cheaper commissioning by importing configuration data from Excel
- Higher data throughput rate and improved diagnostic options
- Remote access and diagnosis via integrated Web server
- Secure communication with OPC server via TCP
- Complete OPC Client and OPC ActiveX controls with Excel, HTML and Visual Basic examples included in package
- 30 day evaluation version available



The OPC data can be easily configured by means of a convenient user interface. Alternatively, the Modbus/TCP OPC server can import configuration data from Excel. This saves time and money during commissioning. The use of alias tags for the OPC data points establishes a direct reference to the actual equipment. This increases clarity and simplifies configuration.

A higher data throughput rate is achieved through the intelligent combination of read and write tasks. For remote access via the Internet, the Modbus/TCP OPC server also features an integrated Web server with extensive diagnostic options and visualization functions. During commissioning, for example, a standard Web browser can be used to enable traces or display selected process data at runtime.

The Softing OPC server supports Data Access specifications 1.0a, 2.05 and 3.0, as well as OPC XML-DA. This means that even non-Windows systems can be used to access the items (data points) on the Modbus/TCP OPC server. Furthermore, the integrated Softing OPC Tunnel ensures that computers or OPC clients connected via the Internet can communicate securely with the Modbus/TCP OPC server. Tedious DCOM configuration and firewall problems are thus a thing of the past!

## Softing AG

Industrial Automation  
Richard-Reitzner-Allee 6  
85540 Haar, Germany

Tel.: +49 (0)89 4 56 56-340  
Fax: +49 (0)89 4 56 56-399  
info.automation@softing.com  
www.softing.com

## Softing North America, Inc.

29 Water Street, Suite 301  
Newburyport, MA 01950  
USA

Fon: +1 978 499 9650  
Fax: +1 978 499 9654  
info.usa@softing.com  
www.softing.us

## Product Information

**Modbus/TCP OPC Server: Easy and Secure Access  
to Modbus Devices and Systems**

## Technical Data

Mode of operation	Modbus Client and Modbus Server simultaneously
Type of communication	-Access to process data of Modbus controllers by Ethernet -Access to process data of Modbus devices by Ethernet
OPC Specification	Data Access 1.0a, 2.05, 3.0 and OPC XML-DA
OPC interfaces	<ul style="list-style-type: none"><li>■ All mandatory interfaces according to Data Access Specification</li><li>■ dynamic namespace with items created from the OPC client</li><li>■ static namespace through import of names from text file or Excel</li></ul>
OPC data types	VARIANT data types UI1, I1, UI2, I2, UI4, I4, R4, R8, BOOL and arrays with these data types, BSTR
Modbus data types	BOOL/BIT, BYTE, UINT, WORD, INT, DUINT, DWORD, DINT, REAL, DINT_BIGENDIAN, DUINT_BIGENDIAN, DWORD_BIGENDIAN, REAL_BIGENDIAN, DOUBLE, DOUBLE_BIGENDIAN
Types of implementation	OutProc Server, Service
Memory address areas	Digital (Coil) Output - 0, Digital (Coil) Input - 1, Register Input - 3, Register Output - 4
Safety and security	<ul style="list-style-type: none"><li>■ Automatic connection monitoring</li><li>■ Integrated OPC Tunnel to bypass DCOM</li></ul>
Configuration	<ul style="list-style-type: none"><li>■ Definition of OPC items in MS Excel</li><li>■ Support of alias names</li></ul>
Hardware requirements	Windows-enabled PC with standard Ethernet card for PC
Operating systems	Windows NT/2000/XP/2003 Server, VISTA, 2008 Server with current service packs
Documentation	Online help in German and English

## Order Number

OPC-MODB-TCP	Modbus/TCP OPC Server, software-based copy protection
LIC-USB-1	Option for hardlock USB copy protection