CONET OPC Server

Model CC026A CONET OPC Server for Industrial Networks.

DATASHEET

- **Interface any OPC client with data on a range of industrial networks.**

- **Fully compliant with OPC 2.0 Data Access Interface Specification.**

- **Windows 98/NT/2000/XP/7/8 32-bit & 64-bit compatible.**

- **Supports both Custom and Automation Interfaces.**

- **Can run remotely, accessed by clients over a network.**

- **Supports Conet/e (over TCP/IP Ethernet), Conet/c (twisted pair), Conet/s (RS232) and Modbus (RS232/485 – limited to Omniflex Products)**

- **Run multiple network connections from the same PC**

- **Support for 1ms input time-tamping at source (with M126X CPU and 32SOE Input Card)**

The OMNIFLEX CONET OPC Server is an OPC compliant Server able to communicate directly with real time I/O devices over an assortment of industrial networks from a TCP/IP Ethernet LAN to CONET/c twisted pair networks to conventional serial RS232/485 networks. This CONET OPC server was implemented with advanced programming concepts using the most current version of the OPC Data Access Interface specification (OPC Version 2.0) for use in developing next generation industrial software applications. The CONET/e, CONET/s and CONET/c protocols all encapsulate the full set of standard CONET message functions for transmission over their respective physical media.

OPC Server features

The CONET OPC Server is extremely versatile, and can be used with DCOM for intranet and Internet applications. The CONET OPC Server may be run stand-alone on a server PC, or on the same machine as the client software.

Key features of the CONET OPC Server:

• Advanced OPC data Quality and data conversion to client's request.

• Supports Multiple Groups for easy configuration and manageability.

• Internal Simulator for configuration and testing

• Tag Multiplier lets you create hundreds of tags in seconds.

• Front-end timestamped events to 10 ms.

System Requirements

The following are system requirements for installing the CONET OPC Server, OPC Test Client:

Windows 7/8 32-bit & 64-bit, XP, Windows 2000, Windows NT 4.0 or Windows 9x with the latest version of DCOM is required to use the CONET local server.

Hardware requirements:

Any mid-level PC will do.

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SPECIFICATIONS

Minimum System Requirements

Processor	Any mid level PC
Disk Space	100 Mbytes
Add-In Cards	Conet/e: any Ethernet LAN card (if not already available on PC) Conet/c: up to 2 C6193A Conet PCI Cards Conet/s: any standard serial port Modbus: any standard serial port
Operating System	Microsoft Windows 7 32-bit & 64-bit, Windows XP, Windows 2000, NT 4.0 or Windows 98 including DCOM installation.

Server Technical Information

Server Type	Out of Process ("local") COM Server
OPC Interface	Native COM Custom Interface
OLE Automation Interface	Via OPC wrapper dll supplied
Server Software Structure	Free-threading model

Server Components

Run time module	Self Registering COM local Server
Configurator module	Stand-alone Configurator Module for off-line configuration. Includes OPC Server Monitor

OPC COM Interfaces Supported

IOPCServer
IOPCBrowseServerAddressSpace
IOPCGroupStateMgt
IOPCSyncIO
IOPCAsyncIO
IOPCAsyncIO2
IOPCItemMgt
IdataObject
IEnumOPCItemAttributes
IOPCCCommon
IconnectionPointContainer   (on   OPCGroup)
IconnectionPointContainer   (on   OPCServer)
IOPCItemProperties

Ordering Information

Model Description	Order Code
CONET OPC Server	CC026A

WHAT IS OPC?

The Problem

Before OPC, there were numerous software applications that accessed plant floor data directly (MMIs, SCADA, SPC, etc.) written by various companies. These companies gained access to the data by independently developing "drivers" for their own packages. This has lead to the following problems:

- Duplicated effort caused by each company writing similar drivers.

- Inconsistencies caused by each software vendor only implementing features they each require.

- Compatibility problems caused by upgrades to hardware or software product specifications.

- Access conflicts caused by the fact that only one software driver can access the hardware at a time.

Hardware manufacturers would like to help by developing drivers, but face the problem of which drivers to develop.

The Solution

OLE for Process Control (OPC™) is a software interface standard designed by industry, based upon Microsoft "OLE" technology. This interface standard draws a line inside the computer between hardware and software providers.

The OPC specification defines a software interface that allows hardware developers to provide a single "driver" product that can be used by multiple software applications from different vendors (simultaneously if necessary).

It places the burden of data collection and distribution on the shoulders of each hardware supplier. This makes more sense since they know the most about the idiosyncrasies of accessing data from the device in the most efficient manner. Using the OPC standard, the hardware supplier now provides a single "OPC Server" for all applications, and the end user can readily combine hardware and software products together without fear of interoperability concerns.
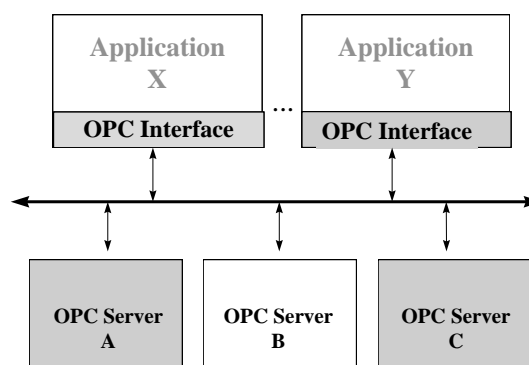
Multiple Applications from different software vendors can now communicate simultaneously with multiple hardware devices using an OPC Interface between the software applications and the OPC Servers.

Management Reporting, Process Control, and Supervisory Functions can be combined into a unified Factory Automation solution that can access all of the live data on the factory floor.

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