COMSOFT

DF PROFINET IO

PROFINET IO Controller Board

DF PROFINET IO – High performance, flexible and practical

PROFINET is the Industrial Ethernet Standard from PI (PROFIBUS & PROFINET International) which has become the market-leading standard over the last five years. Excellent plant-wide networking, fast data communication and long-term availability are just a few of the many benefits.

DF PROFINET IO, the newest in the company's line of pc cards, is a high performance PN IO Controller board in PCI, CompactPCI and PCI-Express format. With this new improvement it is now possible, for the first time, to operate large networks without any performance restriction.

The COMSOFT DF PROFINET IO board operates as a PN IO Controller. Because its efficiency is so huge, the new board achieves operations of 64 PROFINET devices per millisecond in the performance class RT.

A second independent Ethernet interface is optionally available, so the board can therefore operate two PROFINET networks at the same time. Among the cyclic data traffic, all acyclic read/write/diagnosis and alarm functions are supported – and of course compatible to the PN IO standard of PROFIBUS & PROFINET International, the umbrella organisation.

The size of the process image of the card's I/O data is 16 Kbyte (8 Kbyte input and 8 Kbyte output data). The PROFINET configuration data is stored in a failsafe Flash Type Memory. The Controller board also supports PROFINET supervisor functionality. This means that it is possible to scan the network as well as to control the names and IP addresses of the various PROFINET devices.

COMSOFT's CONFIGURATOR III is available for compilation and download of the PROFINET configuration. The comfortable and full graphical tool minimises the configuration effort, while extensive download, analysis and control functions permit an efficient checkup of the configured PROFINET IO network. The compiled configuration is then stored in XML format, allowing an easy integration into third party applications. Drivers for all current operating systems are also available and an OPC UA Server is planned for a later release date. A LabVIEW™ PROFINET VISA Driver is already available.

LabVIEW™ PROFINET VISA Driver

The LabVIEW™ PROFINET VISA Driver equips National Instruments' LabVIEW™ with a real-time PROFINET IO connection. The installation in a classical PC system under LabVIEW™ for Windows is just as possible as in a real-time PXI system under LabVIEW™ RT, e.g. as a high performance PAC system for time-critical test applications or industrial automation applications.

Technical Data

Available Types	PCI and CPCI (PCI-Express is planned)
Operation Mode	PN IO Controller
PROFINET IO Performance Class	Class B (≥ 1 ms)
Ethernet Interface	RJ45 100 Base-T(X)

Manufacturer:
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