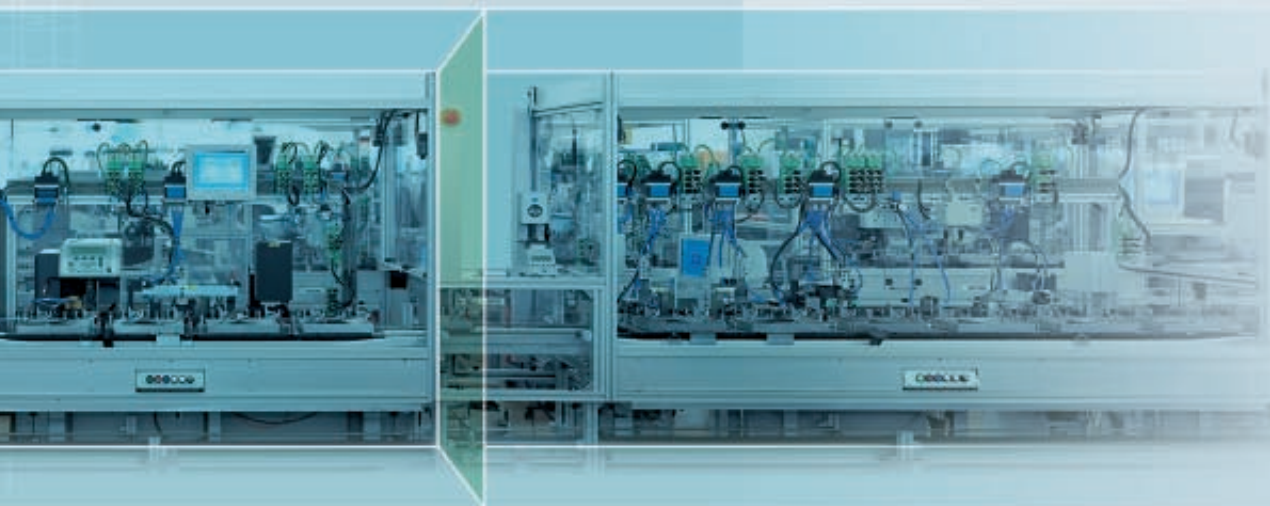


Our solution: Modular and distributed automation concepts on the basis of seamless communication systems

In the task of implementing the described requirements, Phoenix Contact supports mechanical and plant engineering with the PROFINET system by providing an automation solution ideally adapted to the modular machine and plant structures:

- Highly modular compact controllers for distributed use that can be adapted flexibly to suit changes in application conditions
- Uniform programming of all Phoenix Contact controllers so that program modules can be reused once created
- Seamless communication from the production level into the company command level and web level using the Ethernet standards TCP/IP and PROFINET
- Simple integration of existing INTERBUS solutions using the proxy server concept

On the following pages, we shall present the components of our PROFINET system, designed to support you in cutting complexity and costs.



Fax

- I would like to receive information on PROFINET.
 Please send me further information on:

- Please send your newsletter to the e-mail address below.
 I would like a personal consultation without obligation.

Name _____

Company _____

Department _____

Address _____

Zip code/city _____

Phone _____

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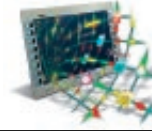
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AUTOMATIONWORX

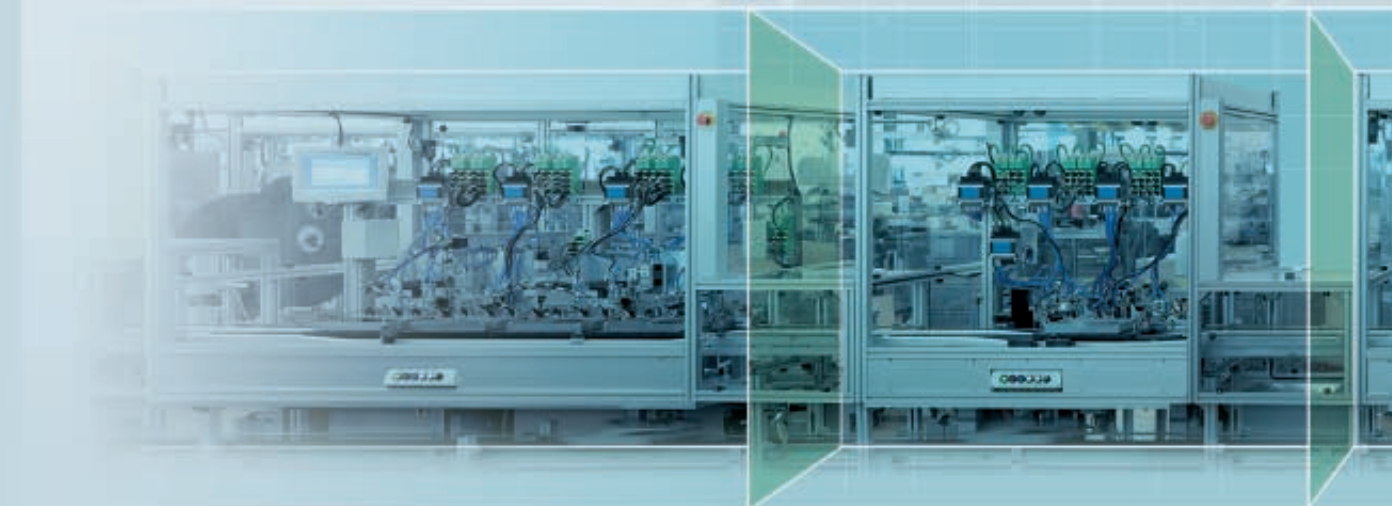
Generate more productivity with the PROFINET system

Your requirements: To cut the complexity and costs for machines and systems

Today's sales markets are characterized by ever shorter product lifecycles and a constant growth of different product types. To be able to provide competitive services, the user therefore calls for machines and systems that:

- Produce inexpensively and in a high quality
- Are easy to handle
- Can be retooled fast and flexibly
- Amortize the costs within a very short time.

The machine and plant engineer is only able to fulfill these conditions by reducing the development and engineering time that accounts for the main share of the overall costs. To do so, it is necessary to split the machine up into handy function units that can easily be integrated in existing solutions or reused in other applications. This gives industrial communication increased importance.



The PROFINET system: Simple, flexible and efficient

The heart of our PROFINET system is the PCWorx automation software. It supports the user in configuring the PROFINET network, as well as with programming, startup and diagnosis of all the components. And the handling is still as simple as the user is used to from the INTERBUS systems that can be set up and operated in combination with PROFINET.

Access to the PROFINET network is via the compact controller ILC 350 PN, that has a PROFINET control function and can be added to with extra functions to suit the requirements. Due to the multimaster capability of PCWorx, simple relationships between the IO controller ILC 350 PN and the associated IO devices can be conveniently planned using the integrated link editor. External software tools are not necessary.

The Inline installation system is connected directly to PROFINET via the PROFINET bus coupler and the Inline Block I/O components. The INTERBUS/PROFINET proxy flexibly integrates the components of a lower-level INTERBUS system in the PROFINET network, while the Managed Compact Switch can be used to connect the automation network to higher-level systems.

▶ Inline controller ILC 350 PN

Order No.: 28 76 92 8

- For flexible configuration of distributed, modular function units
- 0.5 ms processing speed for 1 K instructions
- Integrated PROFINET IO controller and connection to the Inline installation system
- 12 direct inputs and 4 direct outputs
- Can be programmed using the automation software PCWorx



▶ Inline bus coupler FL IL 24 BK-PN

Order No.: 28 78 81 6

- Connects an Inline station consisting of up to 63 modules to PROFINET IO
- High availability due to plain text messages in the diagnostics tool and the use of the SNMP service
- Simple startup with two-figure seven-segment display and additional diagnostic LEDs



▶ PC Worx 5 automation software

Order No.: 29 85 02 6

- Intuitive programming on the basis of all IEC 61131 languages
- Simple creation of network topologies using Drag & Drop
- Convenient device handling with integrated PROFINET device configuration and addressing
- Fast project start thanks to project assistants
- Advanced testing of generated programs with the help of simulation



▶ Managed Compact Switch FL Switch MCS 16TX

Order No.: 28 32 70 0

- Compact switch in block format with 16 twisted pair ports
- Comprehensive software functions such as SNMP, IGMP Snooping und Rapid Spanning Tree protocol
- PROFINET realtime support, VLANs
- High data throughput and good time behavior with Full Wire Speed Switching Fabric



▶ PROFINET/INTERBUS proxy FL PN/IBS

Order No.: 28 32 11 1

- Seamless and uniform connection of field devices of a lower-level INTERBUS system to PROFINET IO
- Convenient configuration and automatic IP addressing/device naming via the IO controller
- Optimized time behavior, since the process data of all devices is efficiently grouped
- Status and diagnostics display with a two-figure seven-segment display and additional LEDs



▶ Inline Block IO module ILB PN 24 DI16 DIO16-2TX

Order No.: 28 78 14 6

- Simple and inexpensive integration of I/O signals in the PROFINET IO network
- Compact 55 mm low-profile design with 16 fixed inputs and 16 freely selectable inputs or outputs
- Connection of further IO devices and the configuration of line topologies and redundancy rings possible by integrating a 3-port switch



Make simple work of setting up a PROFINET network...
...with the starter kit from PHOENIX CONTACT

PROFINET marks the development of a new Ethernet protocol that provides not only seamless data transmission across all the levels of a company, but also realtime capabilities of the established fieldbus systems. Before mechanical and plant engineers or end users equip their applications with the new communication technology, they often wish to convince themselves of the easy handling and safe functioning within the framework of small-scale applications. This is why Phoenix Contact provides a PROFINET starter kit with all the components needed to set up a test application.

Convince yourself of how simple it is to set up and operate PROFINET networks with our components. Order our starter kit now with the fax form to the right:



▶ Fax

I would like to order:
___PROFINET starter kit(s)
Order No.: 29 85 22 0
Price on request

The PROFINET starter kit consists of:

- Programming software PCWorx 5 PN
- Inline Controller ILC 350 PN
- Inline bus coupler FL IL 24 BK-PN
- Inline bus terminal module IB IL 24 DI-4-ME
- Inline bus terminal module IB IL 24 DO-4-ME
- Inline Block IO module ILB PN 24 DI16 DIO16-2TX
- Managed Compact Switch FL Switch MCS 16TX
- Power supply unit STEP-PS-100-240AC/24DC/1.5
- Description PROFINET starter kit and accessories such as cable and switches

Name _____

Company _____

Department _____

Address _____

Zip code/city _____

Phone _____

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E-mail _____

Date/Signature _____

The price of this offer does not include the VAT and is valid for orders until 31 December, 2005.

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