

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

**Artisan Technology Group**
(217) 352-9330 | sales@artisantg.com | artisantg.com

**Full-service, independent repair center**
with experienced engineers and technicians on staff.

**We buy your excess, underutilized, and idle equipment**
along with credit for buybacks and trade-ins.

**Custom engineering**
so your equipment works exactly as you specify.

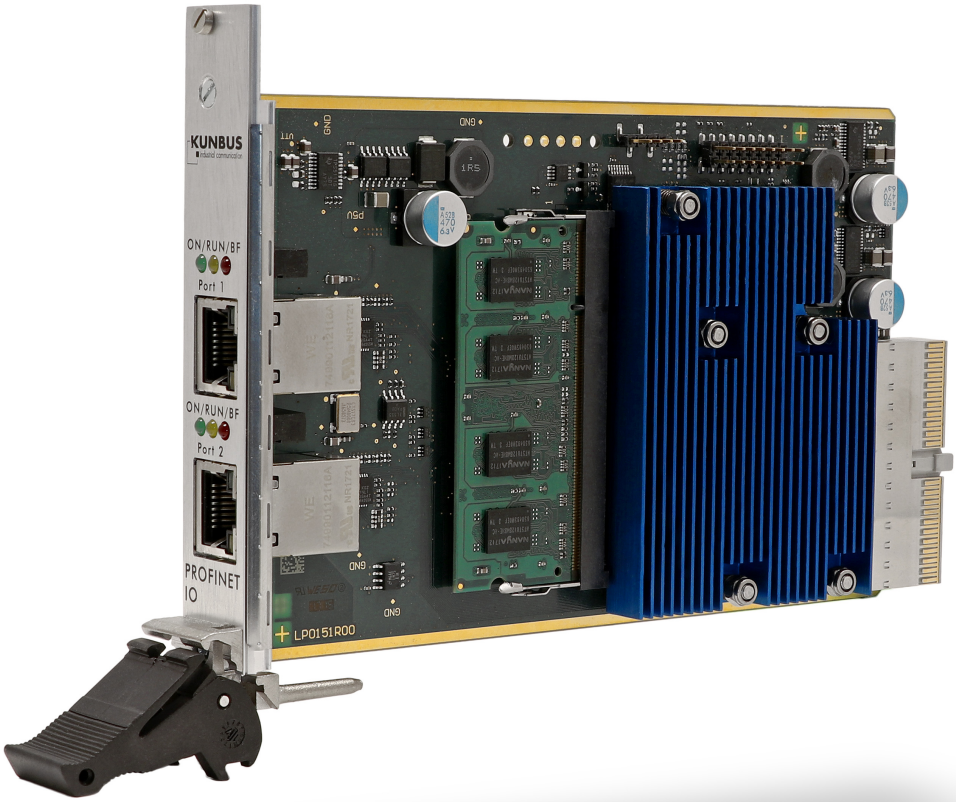
- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

**Expert team | Trust guarantee | 100% satisfaction**

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

**Visit our website - *Click HERE***

KUNBUS
industrial communication




# Installation Instructions
# DF PROFINET IO cPCI

V 1.4 • 19/10/2018

# 1 Disclaimer

© 2018 KUNBUS GmbH, Denkendorf (Deutschland)

The contents of this user manual have been prepared by the KUNBUS GmbH with the utmost care. Due to the technical development, the KUNBUS GmbH reserves the right to change or replace the contents of this user manual without prior notice. You can always obtain the latest version of the user manual at our homepage: www.kunbus.de

The KUNBUS GmbH shall be liable exclusively to the extent specified in General Terms and Conditions (www.kunbus.de/agb.html).

The contents published in this user manual are protected by copyright. Any reproduction or use for the in-house requirements of the user is permitted. Reproduction or use for other purposes are not permitted without the express, written consent of the KUNBUS GmbH. Contraventions shall result in compensation for damages.

**Trademark protection**

- KUNBUS is a registered trademark of the KUNBUS GmbH
- Windows® and Microsoft® are registered trademarks of the Microsoft, Corp.

# Table of Content

**1 Disclaimer ..... 2**

**2 Safety Instructions ..... 4**

**3 Installation on the Board ..... 5**

**4 Description of the LEDs ..... 6**

**5 Technical Data ..... 7**

# 2 Safety Instructions

**WARNING**

**Disregarding this warning may result in damage to equipment and/or serious personal injury.**

Only qualified personnel may start up and operate this device. According to the safety instructions in this text, qualified personnel are persons who are authorized to start up, to ground, and to mark devices, systems, and equipment according to the standards of safety technology.

In addition, these persons must be familiar with all warning instructions and maintenance measures in this text.Folgen

**WARNING**

The DF PROFINET IO PCI board is designed exclusively for PELV operation according to EN 60950/EN 60204/VDE 0805-1.

**NOTICE**

**Shielding**

The shielding ground of the connected twisted pair cables is electrically connected to the female connector. When connecting network segments, avoid ground loops, potential transfers, and voltage equalization currents via the braided shield.

**NOTICE**

**Electrostatic discharge!**

The device contains components that can be damaged or destroyed by electrostatic discharge. When handling the device, observe the necessary safety precautions against electrostatic discharge (ESD), in accordance with

EN 61340-5-1 and EN 61340-5-2, as well as

IEC 61340-5-1 and IEC 61340-5-2.

# 3 Installation on the Board

The DF PROFINET IO CPCI is a Plug&Play-compatible board. The configuration entirely takes place by means of the delivered software or the BIOS of your PC respectively. Thus, no jumpers or DIP-switch adjustments are necessary.

To mount the board, please proceed as follows:

- Please see also the operating instructions of your PC.
- Switch off the Compact PCI System and interrupt the power supply
- Select a free CPCI slot.
- Plug the DF board into the determined slot
- Screw down the board.

**NOTICE**

**When mounting, please follow the safety instructions for electronic modules against electrostatic charge.**

The DF PROFINET IO CPCI does not support Hot Plugging. If in-stalling/ uninstalling the board the Compact PCI system must be switched off and the power supply must be interrupted.

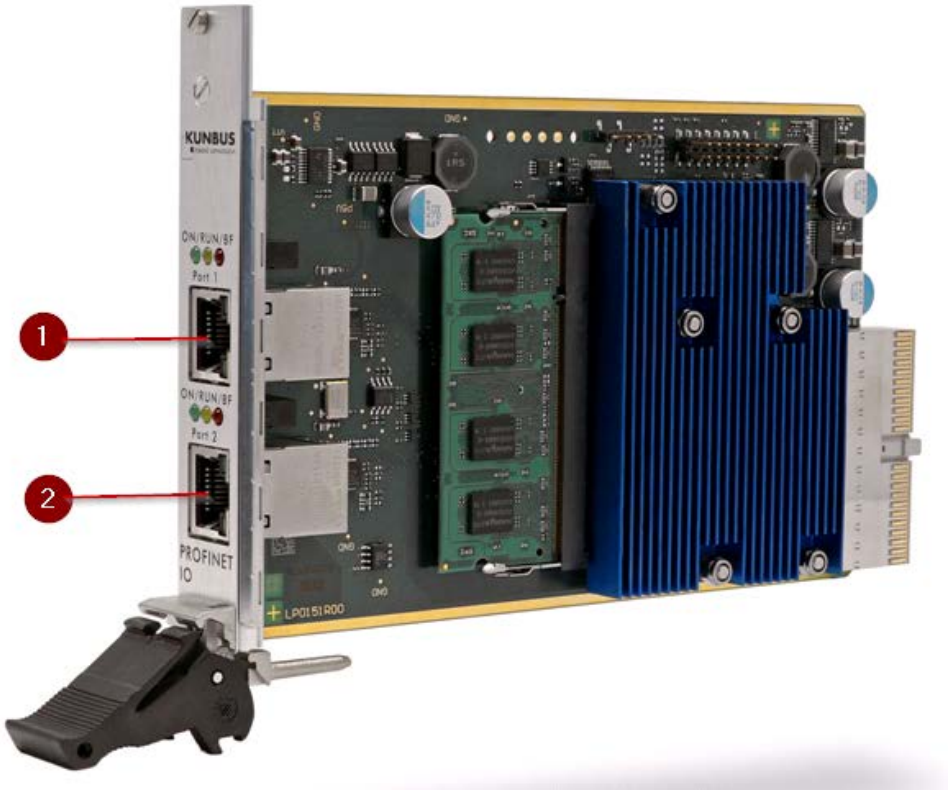



*Illustration 1:* DF PROFINET IO CPCI – Board

| | |
|---|---|
| 1 | LAN socket for controller functionality |
| 2 | LAN socket for device functionality |

# 4 Description of the LEDs

| LED | State | Meaning |
|---|---|---|
| Green | on | Firmware loaded and started |
| | off | Firmware not loaded |
| Yellow | on | PROFINET IO started |
| | off | PROFINET IO stopped |
| Red | Operation as PROFINET IO Controller on Ethernet Interface 1 | |
| | on | PROFINET IO-Failure (min. one device not connected to the PROFINET IO network or with external diagnosis) |
| | off | No PROFINET IO-Failure |
| | Operation as PROFINET IO Device on Ethernet Interface 2 | |
| | on | PROFINET IO-Failure (No active PROFINET IO controller connected) |
| | off | No PROFINET IO-Failure |

# 5 Technical Data

| | |
|---|---|
| Functionality | PN IO Controller, PN IO Device, also simulteanously |
| PN IO Specification | V 2.3 |
| PN IO Performance Class | Class B (<= 1 ms) |
| Processor | 1.3 GHz Freescale PowerQUICC III |
| Memory | 1 GB DDR II<br>32 MB Flash Memory |
| C-PCI Interface | PCI Rev. 2.2, 32 Bit |
| Ethernet Interface 1 (Controller) | RJ45 100 Base-T(X) |
| Ethernet Interface 2 (Device) | RJ45 100 Base-T(X) |
| Data Size of Process Image | 16 KB |
| Power Consumption | Typical 7W |
| Ambient Temperature Range | 0°C – 55°C |
| Dimensions | 213 mm x 129 mm x 20mm |

**Artisan Technology Group** is an independent supplier of quality pre-owned equipment

## Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

## We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

## Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP