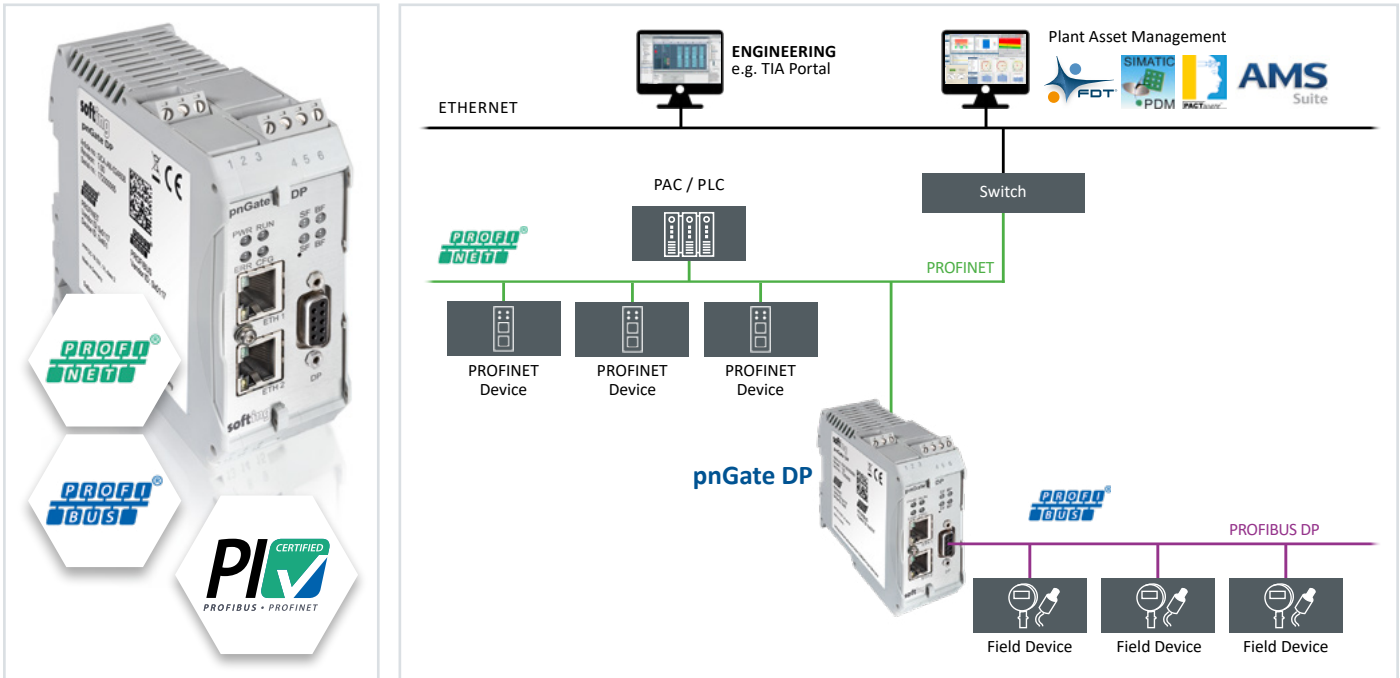# pnGate DP

## Simple connection of PROFIBUS DP Slave Devices to PROFINET Control Systems via Internal I/O Mapping

- **Prepared for Integration in Standard Engineering and Plant Asset Management Tools**
- **Simple Configuration of Device Mapping via Built in Web Interface**
- **Compatible with Products of Leading PLC Manufacturers**



## Configuration, Parameterization and Plant Asset Management Using Standard Industry Tools

- Supports major PROFINET engineering tools such as TIA Portal, Step7 und PC WORXS
- Included CommDTM allowing use in FDT/DTM frame applications
- EDD-based device parametrization using Siemens Simatic PDM
- Maximum flexibility by supporting Configuration in Run

## Direct Connectivity to PROFIBUS Segments

- Single access point to PROFIBUS DP segment from PROFINET networks
- Acting as PROFINET device and PROFIBUS DP master
- Support of one PROFIBUS DP segment
- Support of up to 32 PROFIBUS devices

## Key Component for Transition to State-of-the-Art Technology

- Re-use of existing PROFIBUS segments without requiring modification
- Support of MRP and S2 PROFINET redundancy for increased reliability

optimize!
**soft**ing

# pnGate DP

## Technical Data

| | | |
|---|---|---|
| **Hardware** | Processor | Altera Cyclone V SoC with dual-core ARM Cortex-A9 |
| | Status LEDs (Gateway) | PWR (power supply), RUN (operation), ERR (error), CFG (configuration and update) |
| | Status LEDs (Fieldbus) | SF (system fault), BF (bus fault) |
| **Interfaces and Connectors** | Ethernet | 2 * IEEE 802.3 100BASE-TX / 10BASE-T, managed Ethernet switch for daisy chain totpology<br>Connectors: RJ45<br>Protocol: PROFINET RT / IRT, support of PROFINET redundancy protocols |
| | PROFIBUS DP-V0 / V1 | 1 Segment with RS485 Physical Layer, Connector: 9-pin Sub-D socket |
| **Physical Properties** | Dimensions (H x W x D) | 100 mm x 35 mm x 115 mm |
| | Weight | Approx. 0.25 kg |
| | Power Supply | 18 VDC ... 32 VDC; SELV/PELV power supply mandatory<br>Typical input current: 200 mA, maximum input current: 1 A (allowing for in-rush current at switch-on) |
| | Typical Power Loss | 5 W |
| | Operating / Storage Temperature | -40 °C ... +60 °C / -40 °C ... +85 °C<br>(see detailed mounting description in user manual) |
| | Relative Humidity | 10 % ... 95 %, non-condensing |
| | Cooling | Convection, no fan |
| | Coating | Conformal coating based on ANSI / ISA-S71.04 G3 |
| | Mounting | DIN rail 35 mm |
| | Protection Class | IP20 |

## Scope of Delivery

| | |
|---|---|
| Hardware | pnGate DP Gateway |
| Documentation | On Website |

## Order Numbers

| | |
|---|---|
| GCA-AN-024606 | **pnGate DP**, PROFINET to PROFIBUS DP Gateway. Supports **1 PROFIBUS DP segment** (RS485). |

## Additional Products and Services

| | |
|---|---|
| LRL-DY-134501 | **dataFEED OPC Suite**, Version 4.01 and higher, including all supported PLC protocols, support for OPC UA, access for any number of dataFEED OPC Tunnel Clients, for simultaneous access to a total of up to 100 OPC UA Servers, OPC Servers and OPC Tunnel Servers, and many more Functionalities such as Database and File Access, Data Exchange, Optimizer, Concentrator and Bridge |
| GCA-AN-024608 | **pnGate PB**, PROFINET to PROFIBUS gateway. Supports **2 PA segments** (up to 32 PA devices, MBP physical layer) and **1 PROFIBUS DP segment** (RS485). |
| GCA-AL-024602 | **pnGate PA**, PROFINET to PROFIBUS PA gateway. Supports **up to 2 PA segments** (up to 32 PA devices). |
| GCA-AL-024604 | **pnGate PA**, PROFINET to PROFIBUS gateway. Supports **up to 4 PA segments** (up to 64 PA devices). |

Your local Softing contact:

http://industrial.softing.com

optimize!

**soft**ing