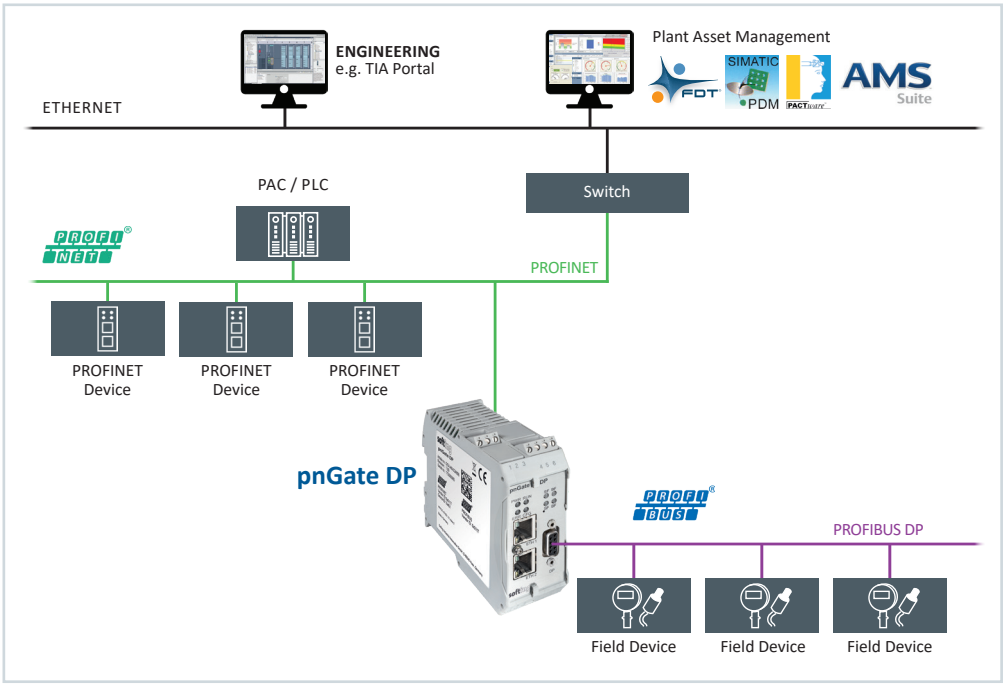
pnGate DP

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

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

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

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 Connectors: RJ45 Protocol: PROFINET RT / IRT, support of PROFINET redundancy protocols RESTful API interface for device configuration
	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 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 (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).
GCA-AL-024605	**pnGate PA** (for STAHL carrier), PROFINET to PROFIBUS-PA gateway. Supports **up to 4 PA segments** (up to 64 PA devices). For reverse installation position in STAHL backplane.

TM SOLUTIONS
TM Solutions inc.
www.tmsolutions.co.kr
e-mail : sales@tmsolutions.co.kr
TEL : +82-2-784-2526

http://industrial.softing.com

optimize! softing

Technical changes reserved © Softing Industrial Automation GmbH, pnGate_DP_D_EN_190724_101, July 2019