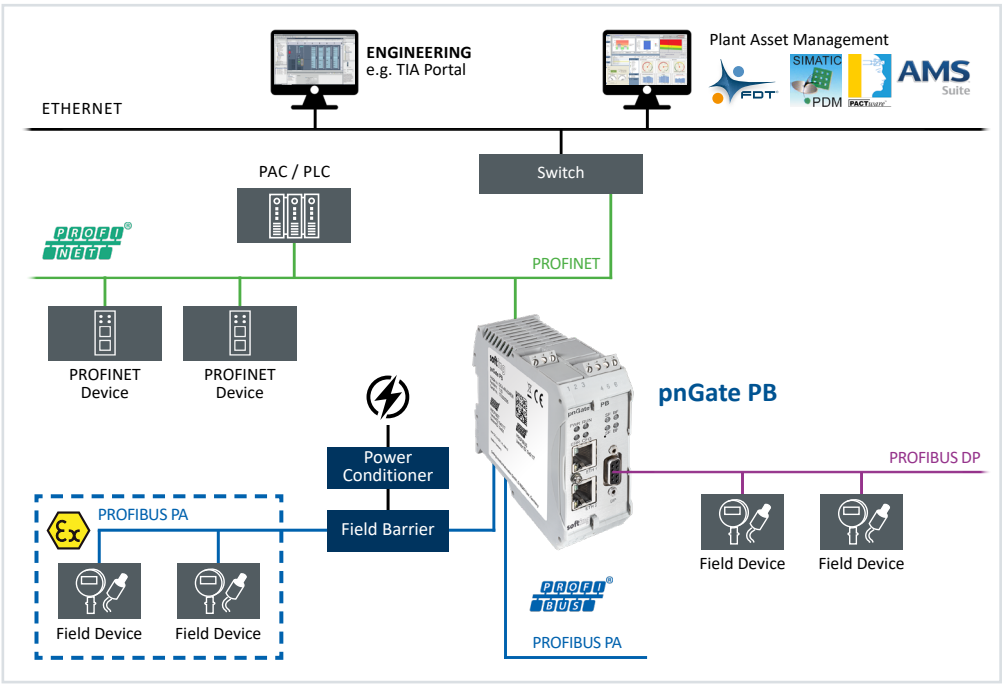
pnGate PB

Direct Integration of PROFIBUS DP and PA Segments into PROFINET Control Systems

- **Re-use of Existing Power Conditioners in Technology Upgrade Projects**
- **No PROFIBUS DP Intermediate Segment required**
- **Prepared for Integration in Standard Engineering and Plant Asset Management Tools**



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

- Simple replacement of installed PROFIBUS DP/PA segment coupler
- Re-use of existing PROFIBUS segments without requiring modification
- Support of MRP and S2 PROFINET redundancy for increased reliability
- Maximum flexibility by supporting Configuration in Run

Direct Connectivity to PROFIBUS Segments

- Single access point to PROFIBUS DP and PROFIBUS PA segments from PROFINET networks
- Acting as PROFINET Device, PROFIBUS PA and PROFIBUS DP Master
- Support of one PROFIBUS DP segment and up to two PROFIBUS PA segments
- Support of up to 64 PROFIBUS devices

Configuration, Parameterization and Plant Asset Management Using Standard Industry Tools

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

pnGate PB

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, embedded PROFINET switch for daisy chain topology Connectors: RJ45 Protocol: PROFINET RT / IRT, Support of PROFINET redundancy protocols RESTful API interface for device configuration
	PROFIBUS PA	2 * PROFIBUS PA (MBP) segments, Bus-powered Medium Attachment Unit (MAU): Fieldbus voltage range: 9 VDC ... 32 VDC, current consumption 10 mA, Connectors: 3-position screw connection, galvanically isolated
	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) No power supply to PROFIBUS PA segments through pnGate PB
	Typical Power Loss	6 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 PB Gateway
Documentation	On Website

Order Numbers

GCA-AN-024608	**pnGate PB**, PROFINET to PROFIBUS Gateway. **Supports up to 2 PROFIBUS PA segments** (up to 32 PA devices, MBP physical layer) and 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-AL-024602	**pnGate PA**, PROFINET to PROFIBUS-PA Gateway. **Supports up to 2 PROFIBUS PA segments** (up to 32 PA devices).
GCA-AL-024604	**pnGate PA**, PROFINET to PROFIBUS-PA Gateway. **Supports up to 4 PROFIBUS PA segments** (up to 64 PA devices).

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