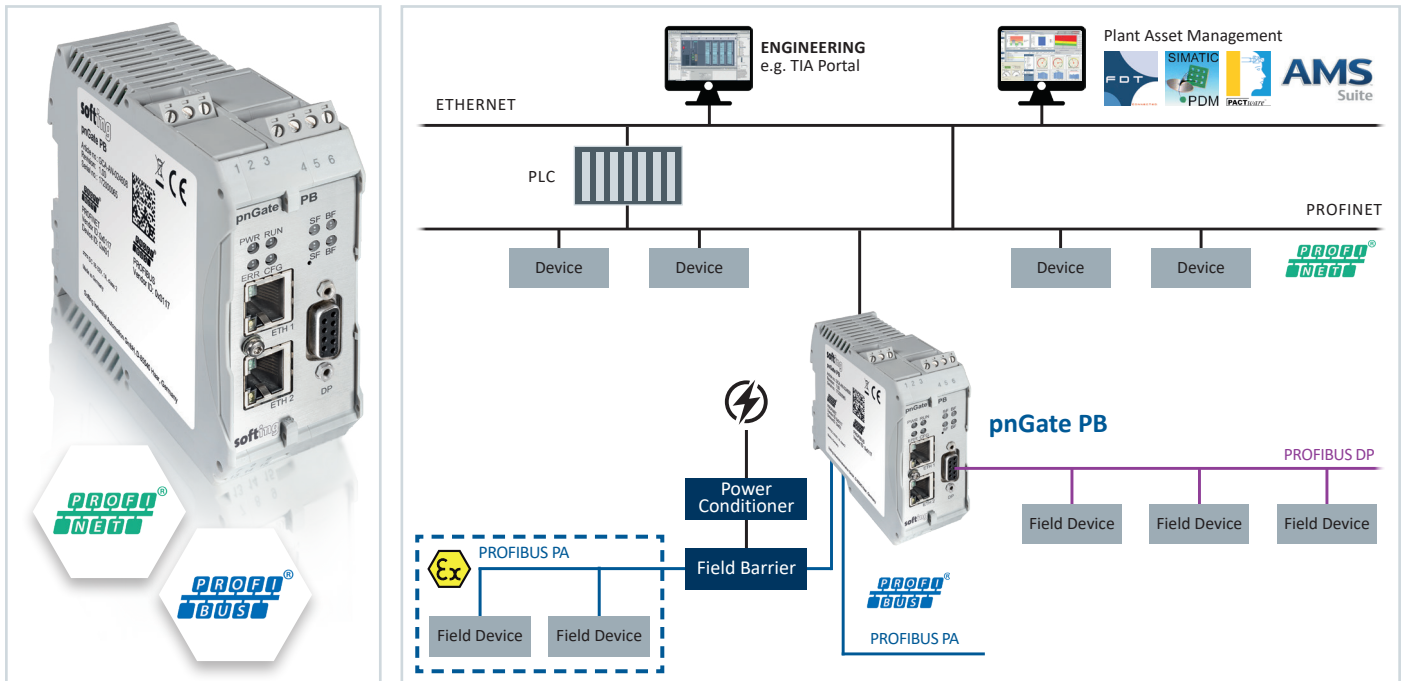


pnGate PB

Direct PROFIBUS Segment Integration into PROFINET Control Systems

- Re-use of Existing PROFIBUS Peripherals in Technology Upgrade Projects
- Connection of PROFIBUS PA Segments without Requiring PROFIBUS DP Intermediate Segment
- Prepared for Integration in Standard Engineering and Plant Asset Management Tools



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

- Re-use of existing PROFIBUS segments without requiring modification
- Simple replacement of installed PROFIBUS DP/PA segment coupler
- Support of PROFINET redundancy for increased reliability

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

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 parameterization 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
	Operating / Storage Temperature	-40 °C ... +70 °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
Software	GSDtoGSDML Converter, FDT CommDTM, PACTware, Drivers and Tools
Documentation	On CD-ROM

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).
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Additional Products and Services

GCA-AL-024602	pnGate PA , PROFINET to PROFIBUS-PA Gateway. Supports up to 2 PROFIBUS PA segments (up to 32 PROFIBUS PA devices).
GCA-AL-024604	pnGate PA , PROFINET to PROFIBUS-PA Gateway. Supports up to 4 PROFIBUS PA segments (up to 64 PROFIBUS PA devices).
GCA-AL-024605	pnGate PA (for STAHL carrier) , PROFINET to PROFIBUS-PA Gateway. Supports up to 4 PROFIBUS PA segments (up to 64 PROFIBUS PA devices). For reversed mounting position on STAHL backplane
GCA-EL-024802	mbGate PA , Modbus/TCP to PROFIBUS-PA Gateway. Supports up to 2 PROFIBUS PA segments (up to 32 PROFIBUS PA devices).
GCA-EL-024804	mbGate PA , Modbus/TCP to PROFIBUS-PA Gateway. Supports up to 4 PROFIBUS PA segments (up to 64 PROFIBUS PA devices)

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