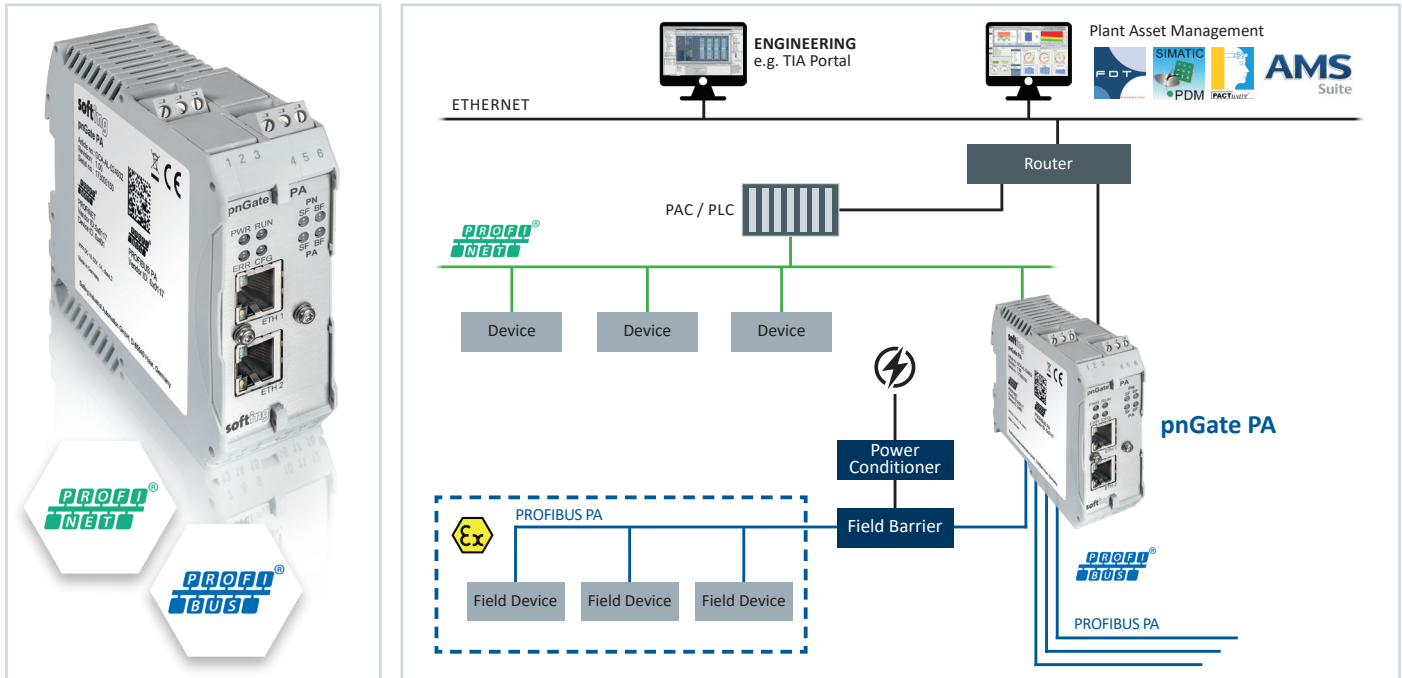


# pnGate PA

Direct PROFIBUS PA Segment Integration 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 couplers
- Re-use of existing PROFIBUS PA segments without requiring modification
- Support of PROFINET redundancy for increased reliability

## Direct Connectivity to PROFIBUS Segments

- Acting as PROFINET Device and PROFIBUS PA Master
- Support of up to 4 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 PA

## Technical Data

<b>Hardware</b>	Processor	Altera Cyclone V SoC with dual-core ARM Cortex-A9
	Status LEDs (Gateway) Status LEDs (Fieldbus)	PWR (power supply), RUN (operation), ERR (error), CFG (configuration and update) SF (system fault), BF (bus fault)
<b>Interfaces and Connectors</b>	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	Up to 4 PROFIBUS PA (MBP) segments (refer to the section "Order Numbers"), Bus-powered Medium Attachment Unit (MAU): Fieldbus voltage range: 9 VDC ... 32 VDC, current consumption 10 mA, Connectors: 3-position screw connection, galvanically isolated
<b>Physical Properties</b>	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 PA
	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 PA Gateway
Software	GSDtoGSDML Converter, FDT CommDTM, PACTware, Drivers and Tools
Documentation	On CD-ROM

## Order Numbers

GCA-AL-024602	<b>pnGate PA</b> , PROFINET to PROFIBUS-PA Gateway. <b>Supports up to 2 PROFIBUS PA segments</b> (up to 32 PA devices).
GCA-AL-024604	<b>pnGate PA</b> , PROFINET to PROFIBUS-PA Gateway. <b>Supports up to 4 PROFIBUS PA segments</b> (up to 64 PA devices).
GCA-AL-024605	<b>pnGate PA (for STAHL carrier)</b> , PROFINET to PROFIBUS-PA Gateway. <b>Supports up to 4 PROFIBUS PA segments</b> (up to 64 PA devices). For reversed mounting position on STAHL backplane

## Additional Products and Services

GCA-AN-024608	<b>pnGate PB</b> , PROFINET to PROFIBUS Gateway. <b>Supports up to 2 PROFIBUS PA segments</b> (up to 32 PA devices, MBP physical layer) and 1 PROFIBUS DP segment (RS485).
GCA-EL-024802	<b>mbGate PA</b> , Modbus/TCP to PROFIBUS-PA Gateway. <b>Supports up to 2 PROFIBUS PA segments</b> (up to 32 PA devices).
GCA-EL-024804	<b>mbGate PA</b> , Modbus/TCP to PROFIBUS-PA Gateway. <b>Supports up to 4 PROFIBUS PA segments</b> (up to 64 PA devices)

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