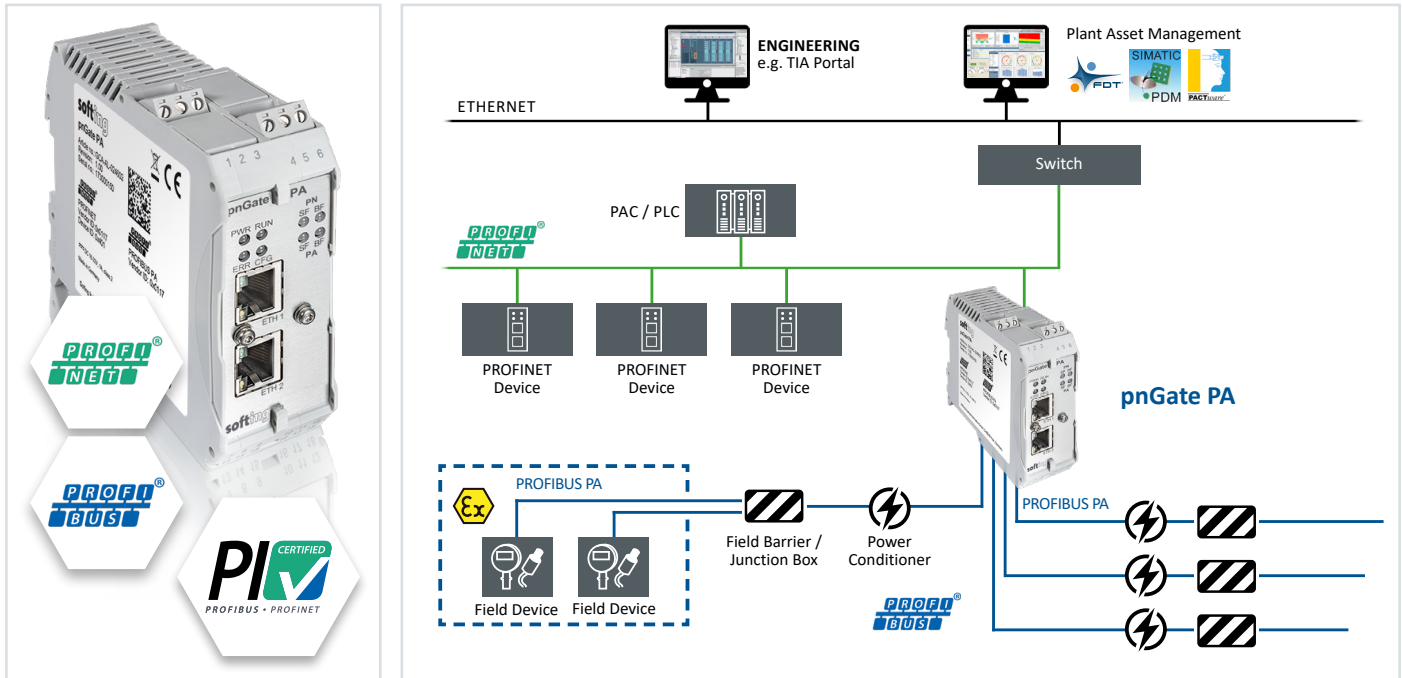


# pnGate PA

Direct PROFIBUS PA Segment Integration into PROFINET Control Systems

- Reuse 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
- Reuse of existing PROFIBUS PA 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

- Acting as PROFINET Device and PROFIBUS PA Master
- Support of up to 4 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 parameterization using Siemens Simatic PDM

## Technical Data

<b>Hardware</b>	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)
<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
	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
	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 PA Gateway
Documentation	On Website

## 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).

## Additional Products and Services

LRL-DY-134501	<b>dataFEED OPC Suite</b> , 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	<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).

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