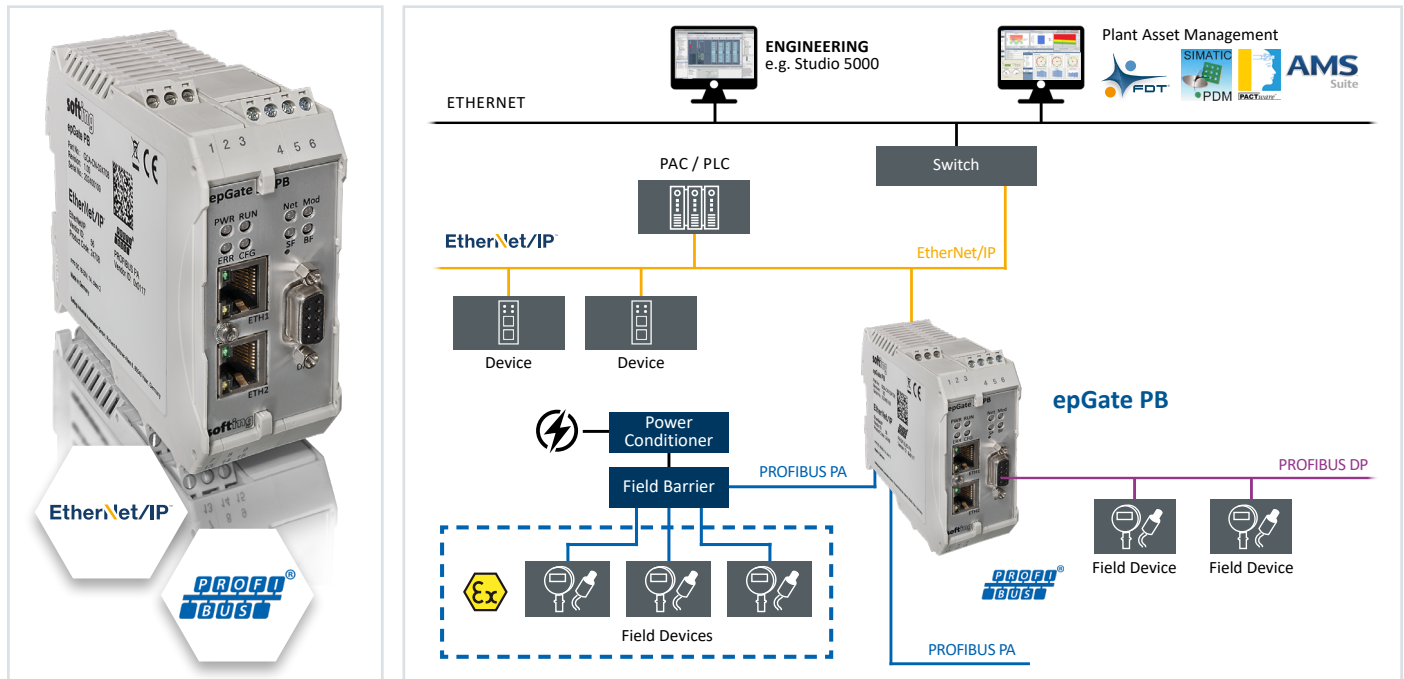dataFLOW®

epGate PB

Direct Integration of PROFIBUS DP and PA Segments into EtherNet/IP Control Systems

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

Configuration, Parameterization and Plant Asset Management Using Standard Industry Tools

- Supports major EtherNet/IP engineering tools such as Studio 5000 and AMS Device Manager
- Included CommDTM allowing use in FDT/DTM frame applications
- EDD-based device parametrization using Siemens Simatic PDM

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 common control systems e.g. Emerson DetlaV or Rockwell Control Logix
- Support of DLR for redundant communication in the ring with EtherNet/IP

Direct Connectivity to PROFIBUS Segments

- Single access point to PROFIBUS DP and PROFIBUS PA segments from EtherNet/IP networks
- Acting as EtherNet/IP device (adapter), 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

Simple Integration Through Add-On Instructions

- Data access of PLC program to PROFIBUS devices without requiring detailed PROFIBUS knowledge
- Mapping between the two protocols generated by provided tools
- Use of Add-On Instructions (AOI) containing detailed PROFIBUS data type definitions
- Transparent communication overcoming protocol differences
- Optimized for usage with Allen Bradley controllers

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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: EtherNet/IP 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	epGate PB Gateway
Documentation	On Website

Order Numbers

GCA-CN-024708	**epGate PB**, EtherNet/IP 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-CL-024702	**epGate PA**, 2 channel, EtherNet/IP to PROFIBUS-PA Gateway. **Supports up to 2 PROFIBUS PA segments** (up to 32 PA devices).
GCA-CL-024704	**epGate PA**, 4 channel, EtherNet/IP to PROFIBUS-PA Gateway. **Supports up to 4 PROFIBUS PA segments** (up to 64 PA devices).
GCA-CN-024706	**epGate DP**, EtherNet/IP to PROFIBUS DP-Gateway. **Supports 1 PROFIBUS DP segment** (RS485).

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