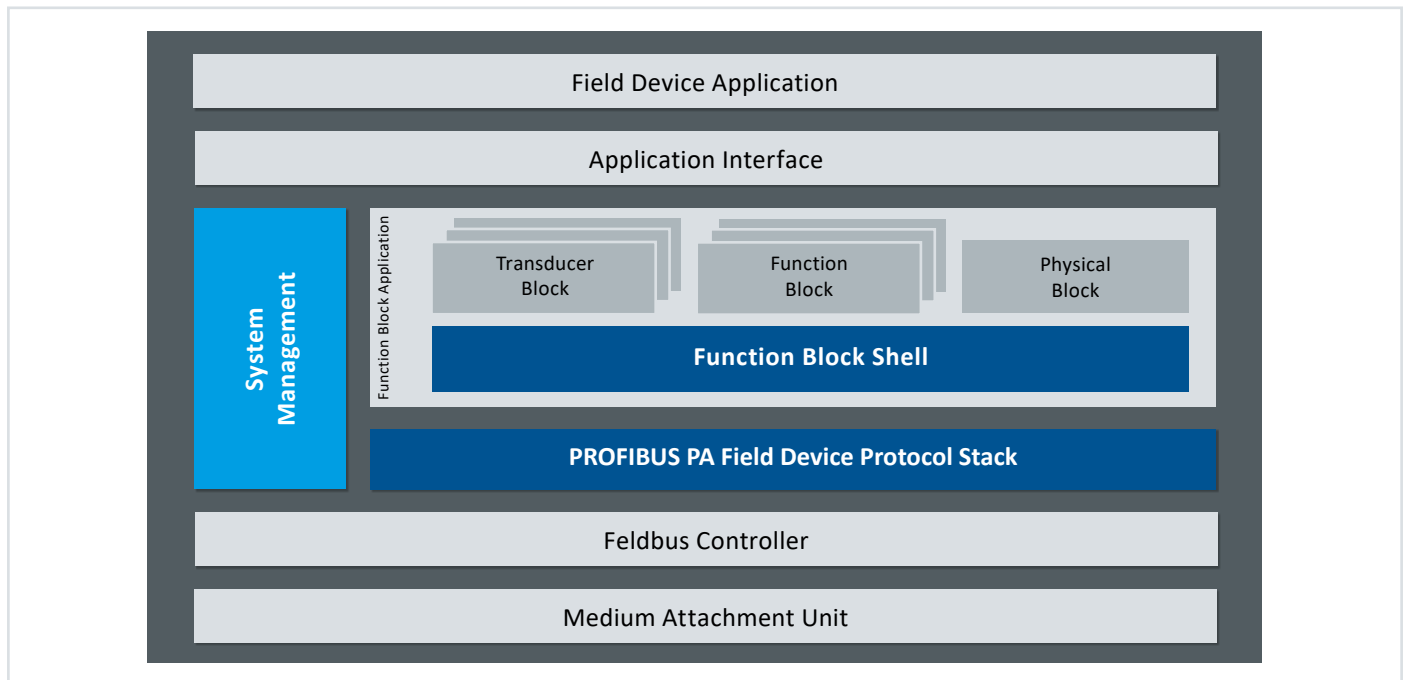# PROFIBUS PA Field Devices Software

Portable PROFIBUS PA Protocol Software for Field Devices

- **Optimized to support customer-specific hardware platforms**
- **Full functionality for implementing conformant PROFIBUS PA field devices**
- **Consistently designed for portability to low-power microcontrollers**

Fast adaptation to customer-specific hardware platforms

- Complete solution, software-based
- Especially designed for use in typical process automation field devices
- Implementation optimized for usage in low-power microcontrollers typically found in hazardous areas
- Suitable for many field device environments with a wide range in terms of microcontrollers, memory expansion and operating systems
- Adaptable to device-specific requirements
- Designed for use in customer-specific target platforms

Full range of functionality

- Implementation according to the PROFIBUS specification
- Including Function Blocks of the PROFIBUS PA profile from the PROFIBUS specification
- Modular design for individual selection of the functionality supported in the respective field device

Support for general fieldbus ASICs

- Implementation support not only for the PROFIBUS ASICs SPC4-2, but also for other fieldbus ASICs such as the UFC100-L1 from Softing
- Possible parallel implementation of PROFIBUS PA and Foundation Fieldbus H1 field devices on identical hardware platform
- Reduced implementation effort for second field device protocol when using the PROFIBUS PA and Foundation Fieldbus H1 field device protocol software from Softing in parallel

optimize!
softing

PROFIBUS PA Field Devices Software

Technical Data

Minimum Hardware Requirements	CPU Class	32 Bit, e.g. ARM Cortex-M, Renesas RX, ...
	CPU Clock	4 MHz
	(Flash-) ROM	> 256 KB
	RAM	> 64 KB
	Non-Volatile Memory	4 KB, e.g. as EEPROM / FRAM
Fieldbus Interface	Number of Channels	1
	Transfer Rate	31.25 Kbit/s
	Fieldbus Controller	Softing UFC100, (Siemens SPC4-2) (TI DAC8740)
Licensing	Per-unit license	Per-unit license fee for use of the PROFIBUS PA field device stack in individual field devices. Protected by Security EEPROM. One-year maintenance contract recommended
Options	Available Function Blocks	Analog Input (AI), Analog Output (AO), Discrete Input (DI), Discrete Output (DO), Totalizer (TOT)

Scope of Delivery

Hardware	Security EEPROM
Documentation	Application Programming Interface (API) manual

Order Numbers

LRA-KK-021513	PROFIBUS PA Device Stack License

Additional Products and Services

FFPA-MAINTAIN-FD	Maintenance Contract for PROFIBUS PA Field Device Software
IFA-KK-020503	Unified Fieldbus Controller UFC-100-L2
SPA-LL-020802	Certification service PROFIBUS PA Physical Layer test
SPA-LL-020805	Pre-certification service PROFIBUS PA test
EVA-MK-022210	commModule MBP Evaluation Kit
TSA-KK-023001	Introductory Training "PROFIBUS PA" This training is not offered as a standard training course, but tailored to individual customer requirements. It is usually held as part of a workshop related to with an integration project.

Your local Softing contact:

https://industrial.softing.com

optimize!

softing