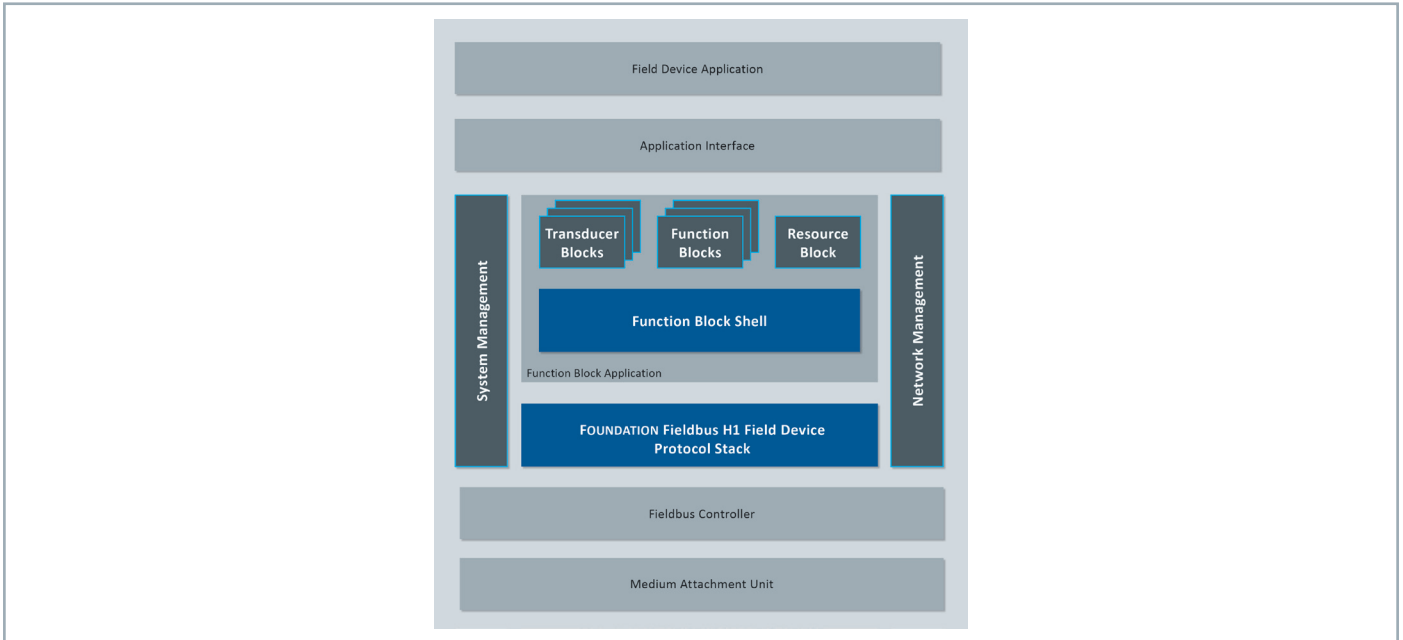


# FOUNDATION™ Fieldbus H1 Field Device Stack

## Portable FOUNDATION Fieldbus H1 Protocol Software for Field Devices

Softing's FOUNDATION Fieldbus (FF) H1 field device stack is optimized with respect to size, performance, and portability to support customer-specific hardware platforms. It is especially targeted to low-power microcontrollers and includes the complete range of protocol features for implementing conformant FF H1 field devices.



### Portability to Customer-Specific Hardware Platforms

- Especially focused on needs of typical process automation field devices
- Implementation optimized for usage of low-power microcontrollers in explosive environments
- Easy usage in wide range of microcontroller, memory, and operating system environments
- Quick adaptation to device-specific requirements for execution on customer-specific target platforms

### Support of Full Range of Protocol Features

- Full spectrum of FieldComm Group specification
- Usage together with wide range of standard Function Blocks
- Optional support of Link Master functionality
- Individual selection of functionality supported by field device

### Proven Quality

- One of the first implemented FF H1 field device stacks
- Implemented in more than 60% of all registered FF systems
- Successful through Softing's uncompromising commitment to quality and extensive experience with embedding communication software into industrial components

## Technical Data

<b>Minimum Hardware Requirements</b>	CPU Class	16 Bit
	CPU Cycle	4 MHz
	Flash	> 384 KB
	RAM	> 128 KB
	Non-Volatile Memory	4 KB (basic device) / 8 KB (Link Master)
<b>Fieldbus Interface</b>	Number of Channels	1
	Transfer Rate	31.25 Kbit/s
<b>Licensing</b>	Development License	One-time fee for developing one field device type using Softing FOUNDATION Fieldbus H1 Field Device Stack
	Royalties	Per-unit fee for licensing the FOUNDATION Fieldbus H1 Field Device Stack for individual field devices Protected by Security EEPROM One-year maintenance contract recommended
<b>Options</b>	Available Function Blocks	Analog Input (AI), Analog Output (AO), Discrete Input (DI), Discrete Output (DO), PID, Multiple Analog Input (MAI), Multiple Analog Output (MAO), Multiple Discrete Input (MDI), Multiple Discrete Output (MDO), Integrator (IT), Arithmetic (AR), Input Selector (IS), Signal Characterizer (SC), Output Splitter (OS)
	Link Active Scheduler (LAS) Block Instantiation	

## Scope of Delivery

Hardware	Security EEPROM
Documentation	Application Programming Interface (API) manual

## Order Numbers

FFH1FD	FOUNDATION Fieldbus H1 Field Device Stack
FFPA-PORT-FD	Porting of FOUNDATION Fieldbus H1 Field Device Stack to customer-specific hardware

## Additional Products and Services

FFPA-MAINTAIN-FD	Maintenance Contract for FOUNDATION Fieldbus H1 Field Device Stack
IFA-KK-020503	Unified Fieldbus Controller UFC-100-L1
SPA-KK-020801	FieldComm Group Physical Layer Test Certification Service for FOUNDATION Fieldbus H1 Field Devices
SPA-KK-020803	FieldComm Group Conformance Test Pre-Certification Service for FOUNDATION Fieldbus H1 Field Devices
SPA-KK-020804	FieldComm Group Interoperability Test Pre-Certification Service for FOUNDATION Fieldbus H1 Field Devices
KSA-FK-020220	FOUNDATION Fieldbus Starter Kit FF-START for FOUNDATION Fieldbus H1 Network Set-Up
TSA-KK-023001	Introductory Training "FOUNDATION Fieldbus" 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 and in connection with an integration project.

optimize!  
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