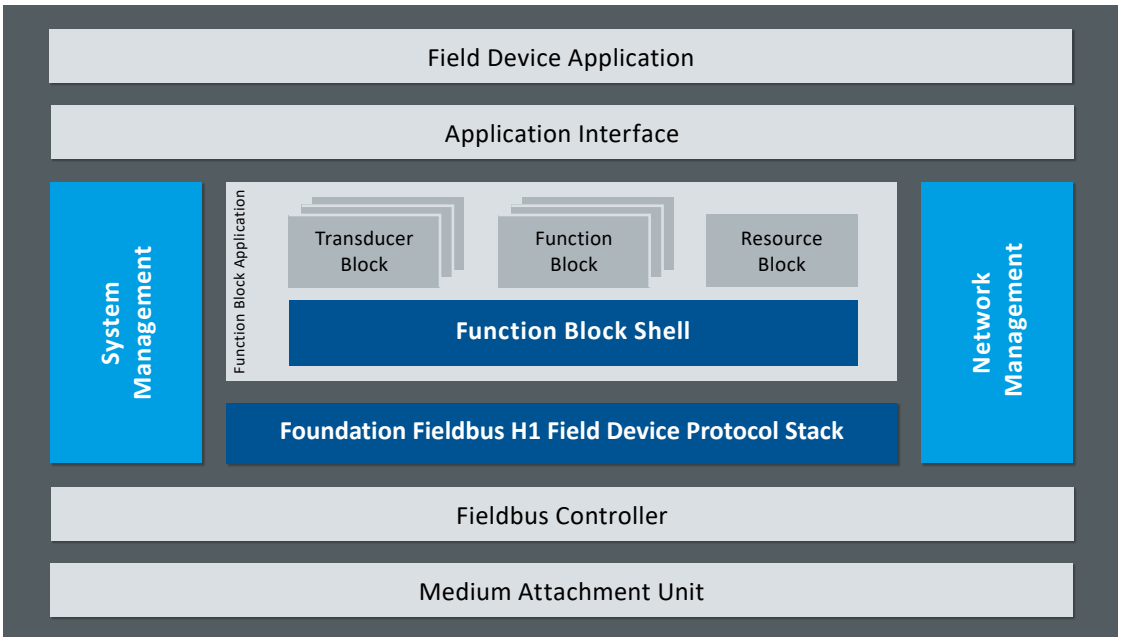
FOUNDATION Fieldbus H1 Field Devices Software

Portable Foundation Fieldbus H1 Protocol Software for Field Devices

- **Optimized to support customer-specific hardware platforms**
- **Complete range of protocol features for implementing conformant FF H1 field devices**
- **Consistently designed for portability to low-power microcontrollers**



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 hazardous areas
- 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
- Including a 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
- Used 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

Simlipfied integration via HW module

- Already running and precertified on our integration modules
- Including FW update over fieldbus
- Most simple integration without any FW development for existing devices using our commKit approach
- Device Stack license already included

Further information

- For further information please contact our TI Sales team sales.automation@softing.com

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Technical Data

Minimum Hardware Requirements	CPU Class	32 Bit, e.g. ARM Cortex-M, Renesas RX, ...
	CPU Clock	4 MHz
	(Flash-) ROM	> 384 KB
	RAM	> 128 KB
	Non-Volatile Memory	4 KB (basic device) / 8 KB (Link Master), 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 Foundation Fieldbus H1 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), 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

LRA-KK-021513	Foundation Fieldbus H1 Device Stack License
LDA-KM-022451	commScripter Single Seat Developer License FF

Additional Products and Services

FFPA-MAINTAIN-FD	Maintenance Contract for FOUNDATION Fieldbus H1 Field Device Stack
IFA-KK-020503	Unified Fieldbus Controller UFC-100-L2
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
EVA-MK-022210	commModule MBP Evaluation Kit
EIA-KS-022200	commModule MBP potted, 90 pieces in tray
EIA-KS-022220	commModule MBP non-potted, 90 pieces in tray
SIA-KL-020100	Integration Support (per hour)

Your local Softing contact:

https://industrial.softing.com

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