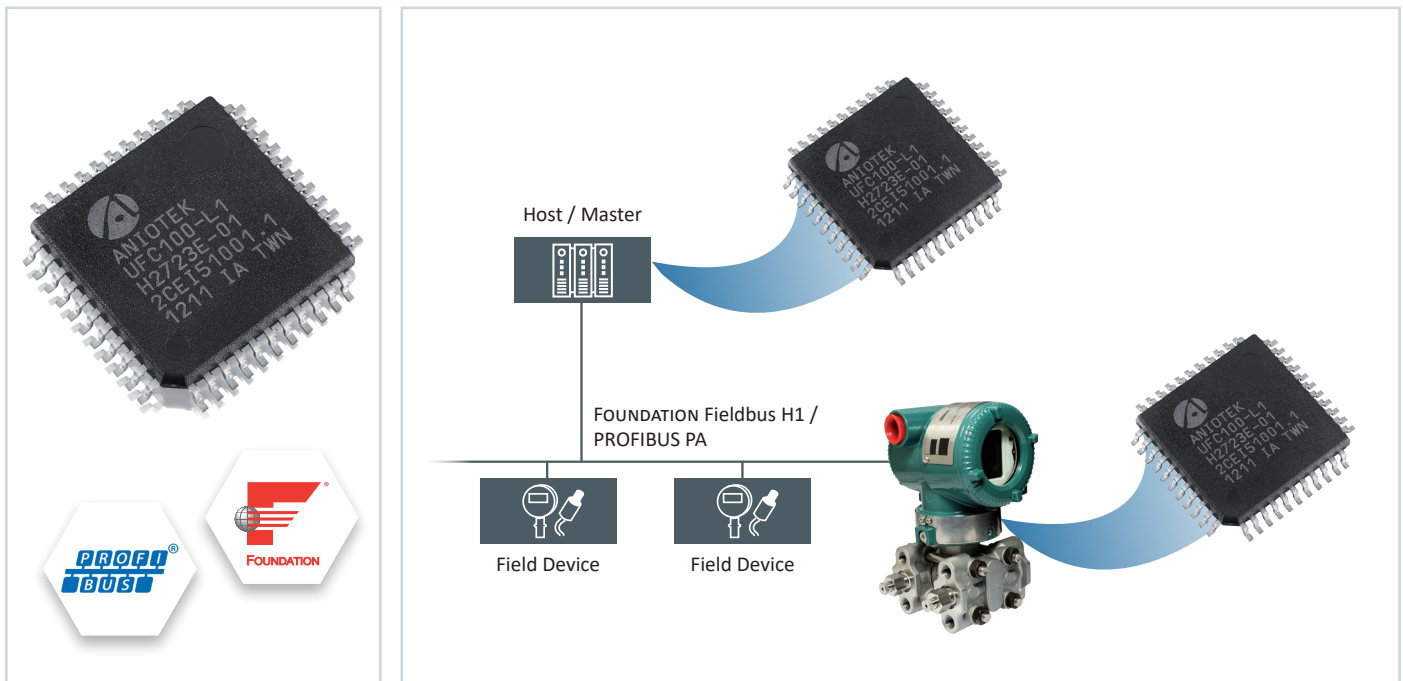


# UFC100-L1

Fieldbus ASIC for Field Devices and Hosts Supporting Foundation™ Fieldbus H1 and PROFIBUS PA

- Implementation of time-critical parts of Foundation Fieldbus (FF) H1 and PROFIBUS PA communication in field devices or host systems
- State-of-the-art hardware with functional advantages
- Support of a special Enhanced Mode feature



## Advanced Communication Capabilities

- Addressing time-critical Physical layer and Data Link layer parts of Foundation Fieldbus H1 or PROFIBUS PA implementations in field devices or host systems
- Work with additional hardware and software, including additional processor for protocol stack execution as well as Media Attachment Unit
- Based on state-of-the-art hardware design using CMOS 3.3V technology
- Advantages like improved jitter tolerance, very low power consumption, and larger FIFO memory with fewer processor interrupts
- Fully pin-compatible with the Yamaha YT420 ("FIND1+")

## Committed to Long-Term Availability and Strict Quality Standards

- Softing commitment to long-term availability
- E.g. provision of migration path to current version after discontinuation of predecessor's package assembly by semiconductor manufacturer
- Manufacturing and sales using state-of-the-art quality management system complying with ISO 9001:2008
- Assurance of strict product quality standards by DNV certificate

## Enhanced Mode Providing Optimized Communication Features

- Additional communication functionality in fieldbus controller
- More CPU power for application software by reduction of CPU load related to pure bus communication of field device
- Improved frame handling and increased utilization of bus communication capacity by analyzing incoming messages and rejecting irrelevant ones already at fieldbus ASIC level

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## Technical Data

<b>Applications</b>	FOUNDATION Fieldbus H1	FOUNDATION Fieldbus field device FOUNDATION Fieldbus Host interface FOUNDATION Fieldbus HSE Linking Device
	PROFIBUS PA	PROFIBUS PA field device PROFIBUS PA Master interface
<b>Physical Properties</b>	Supply Voltage	2.7 V ... 3.6 V
	Operating Current Consumption at 3 V	0.35 mA (1 MHz CLKIN Frequency) 0.65 mA (4 MHz CLKIN Frequency) (all inputs connected to CMOS outputs, all outputs driving CMOS inputs)
	Operation Temperature	-40 °C ... +85 °C
<b>Compliance</b>	Physical Layer	IEC 61158-2 Physical Layer Standard at 31.25 Kbit/s
	Data Link Layer	IEC 61158-4 Data Link Layer Standard

## Scope of Delivery

Hardware	Tray of 160 units
Documentation	User's Manual

## Order Numbers

IFL-KK-020901	UFC100-L1
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## Additional Products and Services

EAA-KS-020200	FBK-2
UBA-KK-020501	FOUNDATION Fieldbus H1 Host Stack
FFH1FD	FOUNDATION Fieldbus H1 Field Device Stack
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.
TRA-PB-TECH	Training "PROFIBUS Technology"

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