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 YTZ420 (“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
Technical Data

Applications
- 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

Physical Properties
- 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)
- Operation Temperature: -40 °C ... +85 °C

Compliance
- 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

Order Numbers
- IFL-KK-020901
- UFC100-L1

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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