

Benefits for Drives, Encoder & Controller Manufacturers

- Significant reduction of cost for firmware development, testing and certification
- Correct implementation of the PROFIdrive & ENCODER profile standard
- Interoperability by using de facto standard code
- Various hardware platforms supported (reduced porting effort)
- Spreading of PROFIdrive technology & ENCODER profile for Devices & Controller

Facts at a glance:

- PROFIdrive & ENCODER profile available in source code, free of charge and free licence
- The implementation provides the basis for a flexible handling of the PROFIdrive parameters and includes the basic drive functions for
 - ... initialization and configuration
 - ... state machine of the drive
 - ... simple motion control frontend
- Easy adaptation and expansion to manufacturer-specific drive features
- Interface wrapper and encapsulated operating system calls secure porting to different hardware platforms (microcontroller) and operating systems (RTOS)
- Sample application, inclusive DC motor model for simulation purposes and Step7 integration with GSDML file
- Reference implementation on hardware platform NetX 100
- Precertified community sources, tested with PI PROFIdrive profile tester

The generated PROFIdrive Profile source code for Controller & Device is free of charge and free software.



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Your Way to PROFIdrive & ENCODER



PROFIdrive

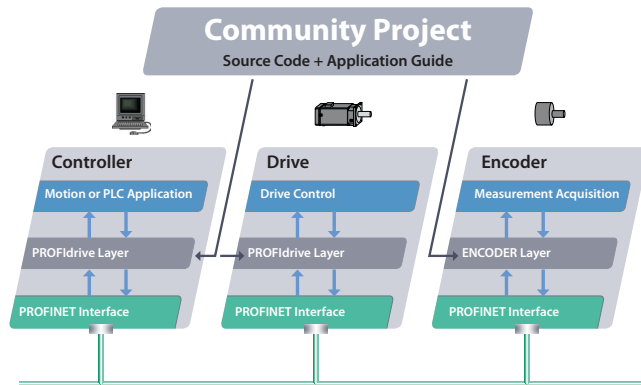
Community Project
<http://www.profibus.com/technology/profidrive/community-project>

Community Project

On the basis of a so called „Community Project“, the responsible Workinggroups offer a base implementation of the actual PROFIdrive Profile in Source Code, free of charge to all interested users and members of the community.

This development represents a de facto standard reference implementation in drive technology.

The first sample implementation was developed on a Hilscher NetX 100 hardware platform. Further implementations are in preparation and will be released soon.



Currently Existing Hardware Platforms:

- NetX 100, Hilscher
- Starter Kit for TPS-1 (in preparation), Renesas Electronics
- PROFIBUS IO Development Kit (DevKit) for ERTEC 200 (in preparation), Siemens
- Altera and Xilinx FPGA, Softing
- Anybus CompactCom Drive Profile Module & Anybus NP40 network processor for licensing, HMS Industrial Networks

Technology Supplier and Service Provider

Siemens & Renesas Electronics

- Development Kits for ERTEC, ASIC Solutions for Real-Time (RT) and Isochronous Real-Time (IRT)
- PROFIBUS Device stack
- Example for PROFIdrive
- Additional services by ComDeC
- PROFIBUS Competence Center
- PROFIBUS Test Laboratory



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Phoenix Contact & Renesas Electronics

- Leading software technology supplier for IEC 61131 PLC, IEC 61508 Safety, and PROFIBUS
- PROFIBUS Controller/Device Stacks
- PROFIsafe Communication
- PROFIBUS Competence Center
- Customer-specific SW and HW engineering services
- Customer-specific solution support for TPS-1 Single-Chip Device Interface
- Starter Kit for detailed TPS-1 evaluation



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Technology Supplier and Service Provider

Softing



- Altera and Xilinx FPGA solution with PROFIBUS support
- Portable PROFIBUS stacks
- Hardware and Software integration services
- Certification support
- Training and Consulting

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Hilscher



- netX ASIC solution
- PROFIBUS Device and Controller solutions
- PC cards, embedded modules, gateways for PROFIBUS/PROFINET and other systems
- Customer specific communication module
- Customer specific implementation of PROFIdrive on basis of community source

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HMS Industrial Networks



- PROFIBUS, PROFIdrive, PROFIsafe & PROFINET connectivity solutions
- Ready-to-use Anybus modules
- Anybus NP 30 and NP40 Chips
- Xilinx FPGA IP-cores & stacks
- Custom specific designs

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