

Software Tools



- Toolkit
- COM Interface
- Device Driver for Windows 9x / NT / 2000 / XP / ME
- Device Driver for Windows CE
- Device Driver for Linux
- System Configurator SyCon
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Toolkit

We supply a detailed description of the data model and the commands in the Dual-port memory together with the function library in ANSI-C to merge the Communication Interface in PC applications. This is supplied in the source code and it is the basic for the development of own device drivers.

COM Interface

For the access to the Communication Interface from object-oriented programming languages, for example Visual C++ or Visual Basic corresponding COM components are available.

Device Driver for Windows 9x / NT / 2000 / XP

The Device Driver handles entire management of the Communication Interface and provides a simple C interface to the application, which is accessed via a DLL. The driver contains functions for initialisation, parameterisation, data exchange and transfer of state information. The used methods and the actual data exchange depend on the fieldbus system, while the fieldbus specific data structures are provided as header files.

Device Driver for Windows CE

The load able driver consists of the driver DLL and the driver interface (API), which is also stored in a DLL. The API is compatible to the Windows device driver. The driver is supplied with the complete source code.

Device Driver for Linux

The driver is licensed through the GNU General Public License. The driver works with all communication interfaces and contains the functions initialisation, parameterisation, data exchange and transfer of state information.

The driver is supplied with setup and test program in source code.

Software Tools – Technical Information

SyCon

SyCon is the configuration program with the same operator interface for all Hilscher PC cards. As basis for the configuration the Device Description Files or Electronic Data Sheets are used where the characteristics of the bus devices are defined. By using a graphic editor the bus structure is appointed and the devices are placed on it. In the configuration window of each device all possible modules and data are shown from which the actual device configuration can be constructed.

SyCon also offers in addition to the configuration possibilities extensive diagnostic- and system start-up functions. For example in the diagnostic mode the error causes of the single devices are shown in plain text.

OPC Server

The OPC Server offers a standard interface from Windows applications to the field level via our Communication Interface. Different card formats and also different fieldbus systems are supported together.

Product overview

Product	Description	
DRV-TKIT	Toolkit for development of own Device Driver with ANSI-C Library	free of charge
DRV-COM	COM Interface for Visual C/C++ / Basic / J++	free of charge
DRV-WIN	Device Driver for Windows 9x / NT / 2000 / XP / ME	free of charge
DRV-CE	Device Driver for Windows CE	
DRV-LNX	Device Driver for Linux	free of charge
SRV-OPC	OPC Server with integrated System Configurator	
SYCON-BASIC	System Configurator Basis version	free of charge
SYCON-ASI	System Configurator AS-Interface	
SYCON-CO	System Configurator CANopen	
SYCON-DN	System Configurator DeviceNet	
SYCON-IB	System Configurator InterBus	
SYCON-PR	System Configurator	

Technical Data

Toolkit	
Operating System	independent / ANSI-C
API	Library
	C-Function calls
	large model
Mode	Polling
Develop Environment	Microsoft C/C++ Borland C
Card Format	all
Fieldbus System	all
COM Interface	
Operating System	Windows 9x / NT / 2000
Develop Environment	MS Visual C++ MS Visual Basic MS Visual J++
Card Format	all
Fieldbus System	all
Device Driver for Windows 9x / NT / 2000 / XP	
Operating System	Windows 9x / NT / 2000 / XP
API	DLL
Mode	Polling, Interrupt
Develop Environment	MS Visual C/C++ Borland C Borland C-Builder others with access to 32 bit DLL
Card Format	all
Fieldbus System	all
Device Driver for Windows CE	
Operating System	Windows CE
Driver Type	32 Bit Kernel
Driver API	DLL
Mode	Polling
Develop Environment	MS Embedded Toolkit MS Visual C/C++
Card Format	ISA, PCMCIA, PC/104, PCI
Fieldbus System	all
Device Driver for Linux	
Operating System	Linux
Driver Type	32-Bit-Kernel Driver
API	Object File (cifSAPI.o)
Mode	Polling, Interrupt
Develop Environment	Linux Kernel GTK + for Driver
Card Format	ISA, PC/104, PCI
Fieldbus System	all
System Configurator SyCon	
PC	min. 486 with CDROM
Hard Disk Memory	min. 30 MByte
RAM	min. 16 MByte
Graphic Resolution	800 x 600 Pixel
Operating System	Windows 9x / NT / ME / 2000 / XP
Card Format	all
Fieldbus System	all
OPC-Server	
Operating System	Windows 9x / NT / 2000 / XP
Mode	Local, Remote

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