



















PRODUCT OVERVIEW

Communication Interface									Assembly Interface	Communication Module			Mezzanine Board	Embedded-Communication	Coprocessor	Protocol-converter	Ethernet Gateway	Field Processor	NetNode	NetLink	Technical Data		Software Tools	
Productfamily	CIF 30	CIF 50	CIF 60	CIF 80	CIF 100	CIF 104	CIF 104-xx-R	CIF 104P	AIF 104 AIF 104-DIAG	COM	COM-CA	PMC	EC-1	COP 50	PKV 30	PKV 40	PKV 50	NN	NL	Slave	Master			
	CIF 30-ASIM	CIF 50-ASIM				CIF 104-ASIM			AIF 104-ASI AIF 104-ASI-DIAG	COM-ASIM	COM-CA-ASIM					PKV 40-ASIM					2 Channels 62 Slaves 248 Input Points 248 Output Points	 SyCon ^{xxx} Systemconfigurator with standardized 'Look and feel' for configuration and support of all fieldbussystems.		
	CIF 30-COS CIF 35-COM	CIF 50-COS CIF 50-COM	CIF 60-COS CIF 60-COM	CIF 80-COS CIF 80-COM	CIF 100-COM	CIF 104-COS CIF 104-COM	CIF 104-COS-R CIF 104-COM-R	CIF 104P-COS CIF 104P-COM	AF 104-CO AF 104-CO-DIAG	COM-COS COM-COM	COM-CA-COS COM-CA-COM	PMC-COS PMC-COM	EC1-100 EC1-100-SLV EC1-160 EC1-160-MST	COP 50-COM	PKV 30-COS	PKV 40-COM	PKV 50-COM			510 Byte I/O-Data 32 Rx- / 32 Tx-PDOs Event trigger Remote request	127 CANopen-Nodes 7 KByte I/O-Data, PDOs / SDOs Event trigger, Cyclic, Acyclic, Synchron, Remote request	 OP-C-Server acc. to Data Access Specification 2.05. Work with Windows NT Service, XML based data configuration-interface SyCon [®]		
	CIF 30-CNS	CIF 50-CNS CIF 55-CNM				CIF 104-CNS CIF 104-CNM				COM-CNS COM-CNM										480 Words I/O-Data CIP, Peer-to-Peer Network Access Port		 DRM-COM COM-Interface for access CIF of Windows 9x, Windows NT, Windows 2000 and Windows XP free of charge		
	CIF 30-DNS CIF 35-DNM	CIF 50-DNS CIF 55-DNM	CIF 60-DNS CIF 60-DNM	CIF 80-DNS CIF 80-DNM	CIF 100-DNM	CIF 104-DNS CIF 104-DNM	CIF 104-DNS-R CIF 104-DNM-R	CIF 104P-DNS CIF 104P-DNM	AIF 104-DN AIF 104-DN-R AIF 104-DN-DIAG AIF 104-DN-DIAG-R AIF 104-DIAG-DC	COM-DNS COM-DNM	COM-CA-DNS COM-CA-DNM	PMC-DNS PMC-DNM	EC1-100 EC1-100-SLV EC1-160 EC1-160-MST	COP 50-DNM	PKV 30-DNS	PKV 40-DNM	PKV 50-DNM			510 Byte I/O-Data Bit Strobe, Cyclic, Poll Change of State Peer-to-Peer Messaging	63 Slaves 7 KByte I/O-Data Cyclic, Poll, Bit Strobe, Change of State Peer-to-Peer Messaging	 DRM-WIN Device-driver for Windows 9x, Windows NT, Windows 2000 and Windows XP free of charge		
		CIF 50-EN				CIF 104-EN				COM-EN	COM-CA-EN		EC1-160 EC1-160-MST					NN 40 NN 42		7 KByte I/O-Data BOOTP, DHCP, FTP, HTTP, SMTP, SNMP, TCP/IP, UDP Open Modbus, Ethernet/IP		 DRM-WICE Device-driver for Windows CE sourcecode		
	CIF 30-IBS CIF 30-IBM	CIF 50-IBS CIF 50-IBS-O CIF 50-IBM	CIF 60-IBM			CIF 104-IBS CIF 104-IBM CIF 104-PS	CIF 104-IBS-R CIF 104-IBS-RO CIF 104-IBM-R CIF 104-IBM-RO		AIF 104-IBM AIF 104-IBM-DIAG AIF 104-DIAG-RY	COM-IBS COM-IBM					PKV 30-IBS	PKV 40-IBM				20 Words I/O-Data PCP Channel	128 Slaves 1024 Byte I/O-Data PCP Channel, InterBus-Loop Generation 4	 DRM-LNX Device-driver for Linux, Sourcecode acc. to GNU General Public Licence free of charge		
	CIF 30-DPS CIF 30-PB	CIF 50-DPS CIF 50-PB	CIF 60-DPS CIF 60-PB	CIF 80-DPS CIF 80-PB	CIF 100-DPM	CIF 104-DPS CIF 104-PB	CIF 104-DPS-R CIF 104-PB-R	CIF 104P-PB	AIF 104-PB AIF 104-PB-DIAG AIF 104-PB-DIAG-R AIF 104-DIAG-RY AIF 104-DIAG-RY-R	COM-DPS COM-PB	COM-CA-DPS COM-CA-DPM	PMC-DPS PMC-PB	EC1-100P EC1-100P-SLV EC1-160P EC1-160P-MST	COP 50-DPM	PKV 30-DPS PKV 30-FMS	PKV 40-PB	PKV 50-DPM		NL MPI	368 Byte I/O-Data DPV1-Extension Class 1- / 2-Service	125 Slaves 7 KByte I/O-Data DPV1-Extension Class 1- / 2-Service FDL- / FMS- / MPI-Funktionen	 DRM-WiAAC driver for WinAC-based and WinAC-RTX		
						CIF 104-PN					COM-CA-PN		EC1-160P EC1-160P-MST									 DRM-RVBP driver for Rockwell Automation SoftLogix		
		CIF 50-SCEB CIF 50-SCM	CIF 60-SCEB			CIF 104-SCEB-RT CIF 104-SCEB-RO			AIF 104-SC-RT													 DRM-RTX driver for the VenturCom RTX up to Version 5.0 under Windows NT and Windows 2000 free of charge		
	CIF 30-MB									COM-MBP												 DRM-VxWx driver for operating system VxWorks V5.x and LP-VxWin V4.x for sourcecode		

PROFINet

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PROFINet - the communication platform of the future



PROFINet is the Ethernet-based communication system for distributed automation. Standardized by the Profibus user organization and supported by the market leaders, it includes the following aspects:

- Makes provision for future communications structures of distributed automation
- Data transfer according to the TCP/IP and DCOM standards
- Softrealtime communication based on Ethernet Frames
- Continuous migration concept via Proxies to PROFIBUS and other fieldbuses
- Manufacturer-overreaching tool for plant-wide configuration

Thus, PROFINet is far more than only another communication protocol such as MODBUS TCP/IP or Ethernet/IP. But, this also means that the PROFINet technology is complex and uses in its full range communication via TCP/IP and DCOM, Web technologies, XML interface, COM and ActiveX techniques of an Engineering System.

We at Hilscher are convinced that PROFINet will be firmly established on the market in the next few years. Correspondingly strong is our commitment in the PROFINet working groups and in the Core Team in order to have the comprehensive Know How available in our company. Of course, we also support other Ethernet-based communications but only one system platform. Because of the above good reasons, we have knowingly decided on PROFINet.

Because PROFINet can only show its uses for the user when it is available as a continuous system, we estimate that it will be three to five years before it is in widespread use in industry. Think of what is involved for your own implementation and the time needed for a system change, we can help you with this. For this purpose, Hilscher offers basic technology, interfaces and proxies as well as support. Further information on this can be found in this brochure provides.

With kind regards,

Hans-Jürgen Hilscher

PROFINet CE Support Package

Hilscher offers a Porting of the PROFINet Stack for Windows CE. For this all the necessary system adaptations such as adapting the TCP/IP transport protocol or the adaptation to the storage management of Windows CE have been undertaken. This stack can be compiled directly in Microsoft embedded Visual C++.

The linkage of applications to the Stack and the handing over of the configuration data is done via a detailed documented API. This DLL is included and it generates from the configuration data the XML description of the component for import into an Engineering Tool.

Another problematic area is the testing of the PROFINet implementation. This is possible between two CE devices when there is basic communication. Otherwise it is very difficult to locate errors, when it is not possible to assume secure functionality of the communication partner. Therefore the package contains a simple PROFINet I/O Slave. Binary output values are visible via LEDs, while binary inputs can be set via the switches.

Our competent developers explain the details during a one day training and give technical support by phone afterwards.

The Support Package offers for the PROFINet implementation on basis of Windows CE into own devices a fast start, test devices, competent support and reduces the expenditure considerable.

- PROFINet Runtime adaptation for Windows CE in the Source Code
- Dynamically configurable
- Easy API for utilization at the device
- DLL for creating the XML description from the configuration
- PROFINet I/O test board CB-EC1-PN with power supply and RJ45 cable
- One day training for max. 2 persons and 20 hours support by phone



Hint:
The Support Package does not contain the original PROFINet Stack. Members of the PROFIBUS User Organization can download it for free from the homepage www.profibus.com of the PNO

PKV50-PN-XXX

With the PKV50, Hilscher offers a PROFINet Proxy with which it is possible to integrate fieldbus devices into a PROFINet network. For this purpose, the fieldbus participants connected to the integrated fieldbus Master are mapped as PROFINet components. As a choice, the PKV50 is available with PRO-FIBUS-DP Master, DeviceNet Master or CANopen Master interface.

- Integration of fieldbuses into the PROFINet network
- Powerful 133 MHz processor
- Windows CE as open operating system for own applications
- Configuration with SyCon

KW Software offers a ProConOS runtime for the PKV 50. This converts the PKV 50 into an intelligent PROFINet node.

CB-EC1-PN

For simple evaluation of PROFINet functionalities, we offer an I/O test board with PROFINet connection. The board possesses a 2 Byte input and a 2 Byte output which can be read out or written to and can be interconnected via PROFINet. The status of the outputs is visible via LEDs and inputs can be set via switches and a potentiometer on the board.

- RJ-45 100Base-T Ethernet connection
- XML description for interconnection with PROFINet Engineering Tool
- Configuration of the system parameters such as IP address via Windows Tool

PROFINet Interfaces

For the implementation of PROFINet into own devices many Interfaces are available with the same firmware on all devices based on the Embedded Communication Controller EC1 with its 100 MBit/s Ethernet interface.

CIF 104-PN
PC104 interface module

COM-CA-EN
Interface module in the OEM format

EC-1
Embedded Communication Controller

SyCon-.net

The next generation of our System Configurator has been proceeded far in the development, thus OEMs can start the integration in their programming environment. This is already done from company KW-Software with the IEC 61131 programming system MULTIPROG.

The SYCON.net includes the PROFINet Engineering module, the FDT/DTM Communication framework and a Linker between the field bus periphery and the data model of the superior Programming System. All modules are independently from each other and can easily be integrated as an ActiveX component.

The SYCON.net provides a comprehensive PROFINet Engineering Tool. The Tool can be used to carry out interconnections of PROFINet components and loaded onto the respective devices. The connections are first tested for their validity. Besides standard functions for diagnostic of PROFINet nodes, also manufacturer-specific facets for detailed diagnostic can be tied in. The correct function of the interconnections can be tested in a special Debug view. Also to be watched is the signal flow of binary signals to the components and the current values of the individual inputs and outputs of the individual components.

OPC Server for PROFINet

Using the OPC Server for PROFINet, OPC Clients such as visualization can access data of PROFINet components. It runs on a central PC and can access to the connected PROFINet devices. The OPC Server obtains its configuration from the PROFINet engineering of the SYCON.net. Here it can be defined which inputs and outputs of the PROFINet components are to be made available by the OPC Server.

Support

Our commitment in the PROFINet working groups and in the Core Team in combination with development of own products we possess an extensive PROFINet Know How. With the PROFINet implementation we have specialised in Windows CE. We are open for questions and suggestions and bring these into the working group for future development of PROFINet. Additionally we offer the service for PROFINet integration.

Product overview

