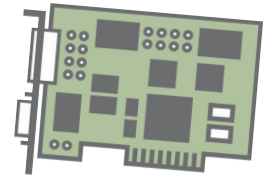


# CIF – Communication Interface



## PC cards as fieldbus interface

- All PC board formats can be supplied
- Identical 'easy to use' application interface for all leading fieldbusses
- One driver for all fieldbusses and board types
- One configuration software
- 'Plug and play' kits for SCADA and Soft SPSen of all leading manufacturers

### Fieldbus integration for PC-based systems

Whether as Master or Slave, fieldbus systems have been proven themselves excellently in PC-based automation. For more than 10 years, the CIF communication interface cards from the Hilscher Company are used successfully in the most varied areas of application and are now a standard in the market.

### PC cards in all formats

With the CIF communication interface, the user will have a unified standard for all the fieldbus systems on different hardware platforms.

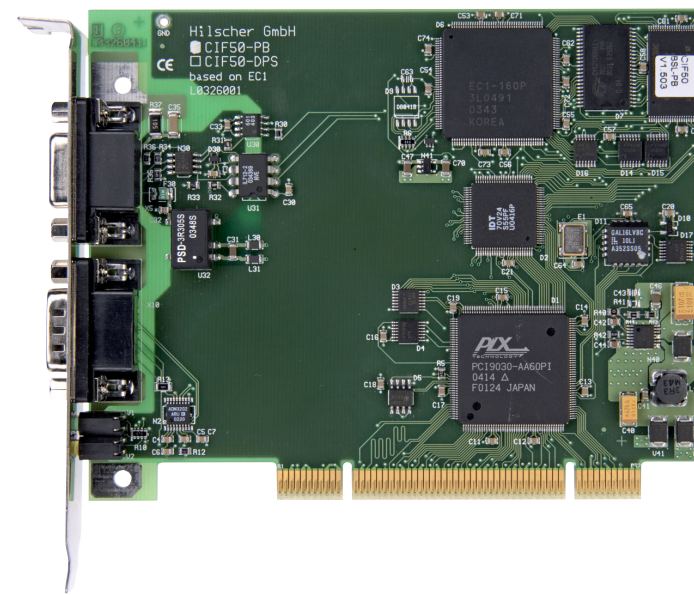
We supply our PC communication cards with PC/104 respectively PCI busses in standard, PC/104+, PCI-104, Compact PCI or PMC format respectively as PCMCIA card for all leading fieldbus systems.

# CIF – Communication Interface

## Communication for PC based Automation

### Fieldbus systems made easy

With a fieldbus card as a fieldbus Master, one always has the current process image of all configured Slave devices. With a CIF card for fieldbus Slave communication, the Dual port memory of the card serves as a process image which can be accessed from both sides at the same time. In both variants the user program need not concern itself with the actual fieldbus communication as this task is automatically undertaken by the CIF card, thanks to its own communication processor.



### All card formats

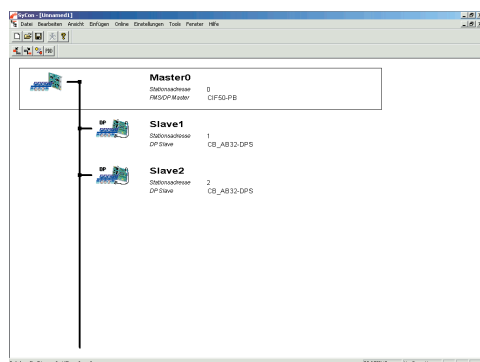
Whether Soft programmable control system, CNC control, Industry terminal, decentralized I/O module or intelligent drive, every application based on a PC standard can be equipped with a CIF card for industrial communication.

### Diagnostic Interface

Serial RS 232 Interface for configuration and online diagnostic.

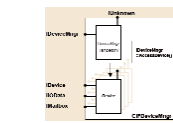
### LED status displays

The operational condition of the CIF card and the communication activities on the fieldbus interface are displayed.



### One configuration for all fieldbusses

The SyCon system configurator allows the uniform configuration of the communication relationship between fieldbus Slave devices and the Master. The configuration of the communication relationship to the individual Slave devices and the respective fieldbus Master are stored permanently down in the configuration memory of the CIF card.



### Drivers

The universal CIF Device Driver and the function library DRV-TKIT present the basis for the execution of the fieldbus integration on the application level independently of the selected hardware platform. An integration once developed can then be used with every available fieldbus system. Drivers for many Soft PLC's are available.



The CIF OPC-Server is available for every fieldbus standard and all Windows-based operating systems. There are finished drivers available for many visualizing systems and with these the CIF cards can be accessed directly.

# CIF – Technical Information

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www.fieldbus.com.au

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www.vipa.at

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www.telereX-europe.com

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ProSoft Ltd.  
www.prosoft.ru

**Singapore**  
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www.vectorinfotech.com

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www.innomatic.co.za

**Spain**  
Sistel Control S.L.  
www.sistelcontrol.com  
Novatronic Sistemas S.L.  
www.novatronicsistemas.com

**Sweden**  
Novotek Sverige AB  
www.novotek.se

**UK**  
Miles Industrial Electronics Ltd  
www.milesie.co.uk

## Special Developments

Do you need a special card with a special protocol?  
We are in a position to meet your special needs. Challenge us ...

## Technical Data

CANopen	Slave	Master
	510 Byte I/O Data	126 Nodes
	Min. Boot up	7168 Byte I/O Data
	COB ID Distribution: default/via SDO	COB ID Distribution: default/via SDO
	Emergency Message	Emergency Message
	Node/Life Guarding, Heartbeat	Node/Life Guarding, Heartbeat
	Event Trigger	Event Trigger
	PDO: Async	PDO: Cyclic, Acyclic, Async
	Remote Request	Remote Request
	32 Rx-/32 Tx-PDOs	

CC-Link	Slave
	Max. 4 Stations each with
	64 Bit I/O Data
	8 Words I/O Data
	Polling

DeviceNet	Slave	Master
	510 Byte I/O Data	63 Slaves
	Explicit, Polling,	7168 Byte I/O Data
	Bit-strobe, Cyclic,	Explicit, Polling, Bit-strobe,
	Change of State	Cyclic, Change of State
	UCMM via Group 1, 2, 3,	UCMM via Group 1, 2, 3,
	Predefined Connection Set	Predefined Connection Set

InterBus	Slave
	20 Words I/O Data
	PCP Channel, 2 Words

PROFIBUS-DP	Slave	Master
	368 Byte I/O Data	125 Slaves
	DPV1 Extensions	7168 Byte I/O Data
	Class 1 and 2 Services	DPV1 Extensions
		Class 1 and 2 Services
		MPI functions

SERCOS	Passiv	Master
	SERCON 816	Max. 8 Drives

Diagnostic Interface
RS232C, Non isolated
A diagnostic interface ist not available on the following devices: CIF 60, PMC, CIF xx-IBS and CIF xx-SCEB.

Operating Voltages / Operating Temperature	
CIF 50	+3,3 V ±5 % / 350-1410 mA
	+5 V ±5 % / 250-580 mA
CIF 50-SCM	+5 V ±5 % / 400 mA
CIF 60	+5 V ±5 % / 650 mA
CIF 80	+3,3 V ±5 % / 500-560 mA
	+5 V ±5 % / 300-500 mA
CIF 104	+5 V ±5% / 300-650 mA
CIF 104P, CIF 104C, PMC	+3,3 V ±5 % / 400 mA
	+5 V ±5 % / 50-300 mA
CIF xx-SCEB	+5 V ±5 % / 250 mA
0 ... 55 °C	

## Product Overview

Fieldbus	PCI	Slave	Master
CANopen	CIF 50	-COS	-COM
CC-Link	CIF 50	-CCS	
DeviceNet	CIF 50	-DNS	-DNM
InterBus	CIF 50	-IBS	
PROFIBUS	CIF 50	-DPS	-PB
SERCOS	CIF 50-SCM*		
SERCOS	CIF 50-SCEB passiv*		

Fieldbus	PCMCIA	Slave	Master
CANopen	CIF 60	-COS	-COM
DeviceNet	CIF 60	-DNS	-DNM
PROFIBUS	CIF 60	-DPS	-PB
SERCOS	CIF 60-SCEB passiv*		

Fieldbus	Compact PCI	Slave	Master
CANopen	CIF 80	-COS	-COM
DeviceNet	CIF 80	-DNS	-DNM
PROFIBUS	CIF 80	-DPS	-PB

Fieldbus	PC/104	Slave	Master
CANopen	CIF 104	-COS	-COM
CC-Link	CIF 104	-CCS	
DeviceNet	CIF 104	-DNS	-DNM
InterBus	CIF 104	-IBS	
PROFIBUS	CIF 104	-DPS	-PB
SERCOS	CIF 104-SCEB passiv*		

Fieldbus	PC/104+	Slave	Master
CANopen	CIF 104P	-COS	-COM
DeviceNet	CIF 104P	-DNS	-DNM
PROFIBUS	CIF 104P	-DPS	-PB

Fieldbus	PCI-104	Slave	Master
CANopen	CIF 104C	-COS	-COM
DeviceNet	CIF 104C	-DNS	-DNM
PROFIBUS	CIF 104C	-DPS	-PB

Fieldbus	PCI Mezzanine Card	Slave	Master
CANopen	PMC	-COS	-COM
DeviceNet	PMC	-DNS	-DNM
PROFIBUS	PMC	-DPS	-PB

\* CIF 50-SCM, CIF 50-SCEB, CIF 60-SCEB, CIF 104-SCEB are not supported by the CIF Device Driver. These devices need an own driver.