

cifX for Fieldbus reduced to the maximum

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netx

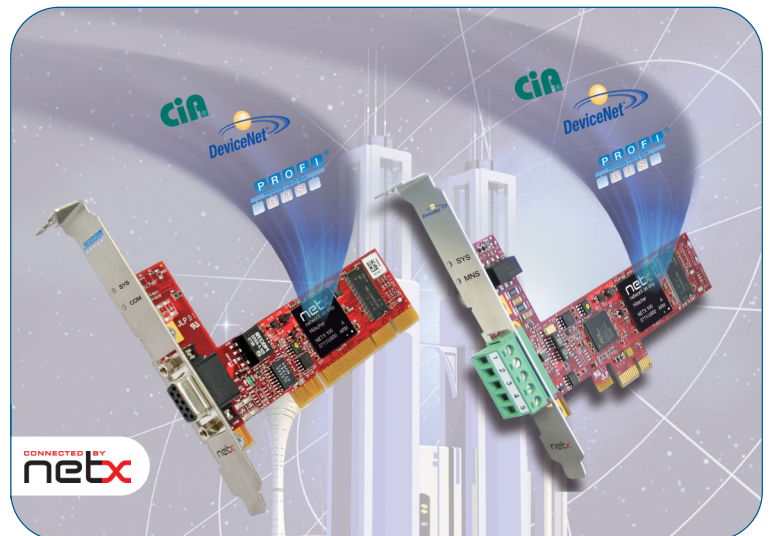
PC-Card & netX

Description

Fieldbus technology with its various standards is an established technology and will coexist for many years beside the upcoming Real-Time systems. With collected experience in fieldbus technology over the last 15 years and more than fifty thousands sold PC cards Hilscher introduces the next generation of cifX communication interfaces: They are based on the high sophisticated netX 100 network controller and differ from each other only in the physical interface. They provide the maximum of performance, functionality and flexibility for the best price-performance ratio. A ten-year commitment of availability is guaranteed using of the Hilscher own network controller.

Highlights

- One PC Card that runs Master and Slave Protocols
- Data Exchange via Dual-Port Memory (DPM)
- Standard User Interface for Various Protocols
- PCI, PCI Express, CompactPCI or Mini PCI
- Ten-year Commitment of Availability
- SYCON.net Configuration Tool based on FDT/DTM Technology



The protocols for cifX are provided as loadable firmware on a CD. The driver loads the firmware into the cifX during each system start-up. This is a simple way to using the card either as master or as slave. A license is required for master firmware. The license can be purchased with the cifX or at later time and is permanently saved in the card.

cifX for Fieldbus

Technical Information

Protocols

AS-Interface	Master
Slaves max.	62
Transaction Type	1-5
Cyclic Data max.	Digital 62 Byte (4Bit/Byte)
	Analog 31 Slaves x 4x16Bit
Acyclic Data	220 Bytes/Request

CC-Link	Slave
Station Type	Remote Device Station
Cyclic Data max.	368 Bytes Input and Output
I/O Data	112 Bytes (RY/RX), 256 Bytes (RWw/RWr)
Extension Cycles	1,2,4,8

CompoNet	Slave
Slavetyp	IN, Mix and OUT
Cyclic Data max.	2-256 I/O Points (Bits)
Baudrate Detection	yes
Telegrams	OUT, TRG, Beacom, B_Event, A_Event, CN,IN

PROFIBUS	Slave	Master
Slaves max.		125
Cyclic Data max.	488 Bytes (IOCR)	7168 Bytes
DPV1 Class 1,2:	yes	yes
Configuration Data:	244 Byte	244 Bytes/Slave
Appl.specific Parameter	237 Bytes	237 Bytes/Slave

CANopen	Nodes	Master
Nodes max.		126
Cyclic Data max.	1024 Bytes	7168 Bytes
SDO Up- and Download:		max. 200Bytes/Request
Emergency:	Producer	Consumer/Producer
Functions:	Node-/ Life Guard., Heartbeat, PDO Mapping, NMT Management, SYNC	
PDO Communication	synchronized, remotely requested and event driven (change of state)	
	max. 64 Rx/TxPDO	max. 512 Rx/TxPDO

DeviceNet	Slave	Master
Slaves max.		63
Cyclic Data max.	510 Bytes	7168, 255 Bytes/Slave
Acyclic Data	Get/Set_Attribute max. 240 Bytes /Req.	
I/O Connections	Poll, Change-of-State, Cyclic, Bit-Strobe	
Functions		UCMM supported

Note: The protocols are delivered as loadable Firmware on the provided CD.

Technical Data

Product	System Interface	Operating Voltage	Operating Temperature	Dimensions (LxWxH)
CIFX 50-XX	PCI, 33 MHz DPM	3,3 V / max. 650 mA	0 ... 55°C	120 x 72 x 18 mm
CIFX 50E-XX	PCI Express, One-Lane Port	3,3 V / max. 800 mA	0 ... 55°C	120 x 77 x 18 mm
CIFX 80-XX	PCI, 33 MHz DPM	3,3 V / max. 650 mA	0 ... 55°C	160 x 100 x 20 mm
CIFX 90-XXIF	Mini PCI, 33 MHz DPM	3,3 V / max. 650 mA	0 ... 55°C	60 x 45 x 4,5 mm
CIFX 90E-XXIF	Mini PCI Express, One-Lane Port	3,3 V / max. 650 mA	0 ... 55°C	60 x 45 x 4,5 mm
CIFX 104-XX	PC, 33 MHz DPM	3,3 V / max. 650 mA	0 ... 55°C	97 x 93 x 26 mm
CIFX 104C-XX	PCI, 33 MHz DPM	3,3 V / max. 650 mA	0 ... 55°C	60 x 45 x 4,5 mm

Product Overview

Product	Part number	Description
CIFX 50-DP(M/S)	1250.400	PCI Communication Interface netX for PROFIBUS - SubD female 9-pin
CIFX 50-CO(M/S)	1250.500	PCI Communication Interface netX for CANopen - SubD male 9-pin
CIFX 50-DN(M/S)	1250.510	PCI Communication Interface netX for DeviceNet - COMBICON 5-pin
CIFX 50-2AS(M)	1250.630	PCI Communication Interface netX for AS-Interface - COMBICON 2-pin
CIFX 50-CC(S)	1250.740	PCI Communication Interface netX for CC-Link - COMBICON 5-pin
CIFX 50-CP(S)	1250.750	PCI Communication Interface netX for CompoNet - Open-Jack 4 pin
CIFX 50E-DP(M/S)	1251.410	PCI Express Communication Interface netX for PROFIBUS - SubD female 9-pin
CIFX 50E-CO(M/S)	1251.500	PCI Express Communication Interface netX for CANopen - SubD male 9-pin
CIFX 50E-DN(M/S)	1251.510	PCI Express Communication Interface netX for DeviceNet - COMBICON 5-pin
CIFX 50E-2AS(M)	1251.630	PCI Express Communication Interface netX for AS-Interface COMBICON 2 pin
CIFX 50E-CC(S)	1251.740	PCI Express Communication Interface netX for CC-Link COMBICON 5-pin
CIFX 50E-CP(S)	1251.750	PCI Express Communication Interface netX for CompoNet Open-Jack 4 pin
CIFX 50-2DP(M/S)	1252.410	PCI Communication Interface netX for PROFIBUS - 2*SubD female 9-pin
CIFX 80-DP(M/S)	1280.410	CompactPCI Communication Interface netX for PROFIBUS - SubD female 9-pin
CIFX 80-CO(M/S)	1280.500	CompactPCI Communication Interface netX for DeviceNet - SubD male 9-pin
CIFX 80-DN(M/S)	1280.510	CompactPCI Communication Interface netX for DeviceNet - COMBICON 5-pin
CIFX 90-DP(M/S)	1290.411	Mini PCI Communication Interface netX for PROFIBUS - Cable and AIFX-DP with SubD female 9-pin
CIFX 90-CO(M/S)	1290.501	Mini PCI Communication Interface netX for CANopen - Cable and AIFX-CO with SubD male 9-pin
CIFX 90-DN(M/S)	1290.511	Mini PCI Communication Interface netX for DeviceNet - Cable and AIFX-DN with COMBICON 5-pin
CIFX 90E-DP(M/S)	1291.411	Mini PCI Express Communication Interface netX for PROFIBUS - Cable and AIFX-DP with SubD female
CIFX 90E-CO(M/S)	1291.501	Mini PCI Express Communication Interface netX for CANopen - Cable and AIFX-CO with SubD male
CIFX 90E-DN(M/S)	1291.511	Mini PCI Express Communication Interface netX for DeviceNet - Cable and AIFX-DN with COMBICON
CIFX 104-DP(M/S)*	1278.410	PC-104 Communication Interface netX for PROFIBUS - SubD female 9-pin
CIFX 104-CO(M/S)*	1278.500	PC-104 Communication Interface netX for CANopen - SubD male 9-pin
CIFX 104-DN(M/S)*	1278.510	PC-104 Communication Interface netX for DeviceNet - COMBICON 5-pin
CIFX 104C-DP(M/S)*	1270.410	PCI-104 Communication Interface netX for PROFIBUS - SubD female 9-pin
CIFX 104C-CO(M/S)*	1270.500	PCI-104 Communication Interface netX for CANopen - SubD male 9-pin
CIFX 104C-DN(M/S)*	1270.510	PCI-104 Communication Interface netX for DeviceNet - COMBICON 5-pin
NXLIC-MASTER	8211.000	Master License

Note: All technical data can be altered without notice.

() = Master or Slave decided by software. Master license needs to be ordered separately

**= available in the variants: IR, -R, -rIF*

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