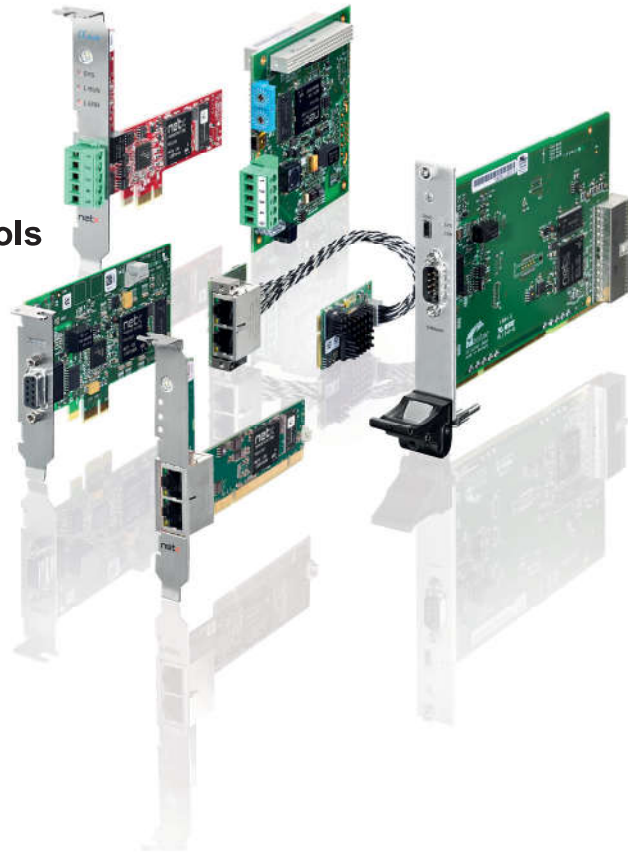


- All major industrial protocols
- All common PC card formats
- One hardware for all Real-Time Ethernet protocols
- Master and Slave
- Wide range of device drivers
- Same application interface for all networks



PC cards in all formats for all protocols

The cifX PC card family is the unified standard supporting all Real-Time Ethernet and Fieldbus systems for PC based automation.

The protocol stack is executed autonomously on the PC card and process data exchange with the host is done via Dual-Port-Memory or DMA (Direct Memory Access). Thanks to the common Hilscher Platform Strategy all PC cards use the same driver and tools - independent of protocol and card format. A change of communication protocol is done by just loading a different firmware. A rotary switch delivers an easy and reliable slot assignment for the PCI- and PCI Express card types. In addition special types e.g. with integrated NVRAM, 2-channel cards or detached network interface are available.

A complete software package is always included in the scope of delivery. This package consists of one FDT-based configuration tool (IEC standard) for all products and networks, loadable firmware, documentation and a driver tool-kit.

Due to own network controller netX a 10-year guarantee of delivery is granted.

Technical Data / Product Overview

Technical Data

Parameter	Value
Weight	max. 150 g
CE Sign	yes
Certification	RoHS, Reach, UL
Emission	EN 55011:2009 + A1:2010, CISPR 11, Class A
Galvanic Isolation	potential free isolated

Parameter	Value
\ET	extended temperature range
\MR	128 kByte MRAM
\F	detached network interface
Dual-Port-Memory	16 kByte, 8-/16 bit
LED Indicators	SYS, COM 0, COM 1, Link, Rx/Tx

Article	System Interface	Operating Voltage	Operating Temperature	Dimensions (LxHxW)
CIFX 50-XX	PCI, 33 MHz, DPM, IO-DMA	3,3 V / typ. 650 mA	-20 ... +55°C / -20 ... +70°C	120,0 x 86,0 x 18,5 mm
CIFX 50E-XX	PCI Express, One-Lane-Port	3,3 V / typ. 800 mA	-20 ... +55°C / -20 ... +70°C	120,0 x 86,0 x 18,5 mm
CIFX 70E-XX	Low Profile PCI Express, One-Lane-Port	3,3 V / typ. 800 mA	-20 ... +65°C	119,0 x 69,0 x 18,5 mm
CIFX 80-XX	Compact PCI, 33 MHz, DPM, IO-DMA	3,3 V / typ. 650 mA	-20 ... +70°C	162,5 x 100,0 x 20,0 mm
CIFX 90-XXIF	Mini PCI, 33 MHz, DPM, IO-DMA	3,3 V / typ. 650 mA	-20 ... +70°C	60,0 x 45,0 x 9,5 mm
CIFX 90E-XXIF	Mini PCI Express, One-Lane-Port	3,3 V / typ. 800 mA	-20 ... +55°C / -20 ... +70°C	51,0 x 30,2 x 11,0 mm
CIFX 104-XX*	PC/104, 33 MHz, DPM	3,3 V / typ. 650 mA	-20 ... +70°C	97,0 x 91,0 x 24,0 mm
CIFX 104C-XX*	PCI 104, 33 MHz, DPM, IO-DMA	3,3 V / typ. 650 mA	-20 ... +70°C	97,0 x 91,0 x 24,0 mm

*= available in the variants: \F, -R, -RVF

System bus Article	Universal Card (Master & Slave)	AS	canopen	CCLink	DeviceNet	EnergyFlex	CCLink IE Basic	CCLink IE Basic	EtherCAT	EtherNet/IP	EtherCAT POWERLINK	Modbus	PROFINET	Sercos	RS-485	NVRAM	2-Channel
PCI CIFX 50	✓	✓	✓	✓	✓	✓ ⁵⁾	—	✓	✓	✓	✓	✓	✓	✓	✓	—	✓ ⁴⁾
PCI Express CIFX 50E	✓	✓	✓	✓	✓	✓ ⁵⁾	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	✓ ⁴⁾
Low Profile PCIe CIFX 70E	✓	—	✓	—	✓	✓ ⁵⁾	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ ³⁾	—
Compact PCI CIFX 80	✓	—	✓	—	✓	✓ ⁵⁾	—	✓	✓	✓	✓	✓	✓	✓	✓	—	—
Mini PCI CIFX 90	✓	—	✓	✓	✓	✓ ⁵⁾	—	✓	✓	✓	✓	✓	✓	✓	✓	—	—
Mini PCIe CIFX 90E	✓	—	✓	✓	✓	✓ ⁵⁾	—	✓	✓	✓	✓	✓	✓	✓	✓	✓ ³⁾	✓ ⁴⁾
PC/104 CIFX 104	✓	—	✓	✓	✓	✓ ⁵⁾	—	✓	✓	✓	✓	✓	✓	✓	✓	—	—
PCI 104 CIFX 104C	✓	—	✓	✓	✓	✓ ⁵⁾	—	✓	✓	✓	✓	✓	✓	✓	✓	—	—

1) Slave only

2) Master only

3) NVRAM available for all protocols

5) also MPI

4) 2-Channel card available in following combinations:

PCI: 2ASM, 2DP, 2CO, 2DN, 2DPICO, 2DPIDN, 2COIDN

PCI Express: 2ASM, 2DP, 2CO, 2DN, 2DPICO, 2DPIDN, 2COIDN

Mini PCI Express: 2DP, 2CO, 2DN, 2DPICO, 2DPIDN, 2COIDN

Note: All technical data is preliminary and may be changed without further notice.

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