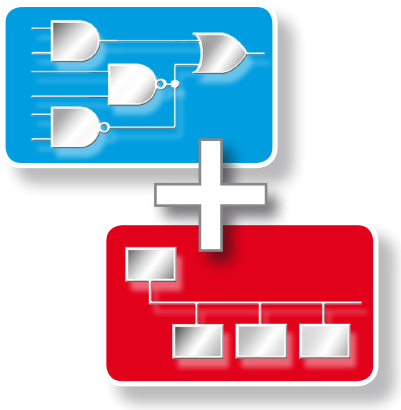
netPLC

Programmable Logic Controller Technology

Communication and Control combined

- PLC with fieldbus connection based on netX controller chip
- IEC 61131 or SIMATIC S7® compatible PLC
- As PROFIBUS, CANopen, DeviceNet master or others
- Inclusive programming and bus configuration tool



Read-to-use or in a customer specific design

- Already integrated into ready-to-use PLC platforms
- Controller technology usable in any netX controller based design
- Local I/O, serial interface, I2C/SPI/UART bus as advanced options

netPLC technology combines fieldbus and PLC functionality in netX controller based designs. As PLCs between the runtime environments CoDeSys Control V3 from Smart Software Solutions and ProConOS eCLR from KW-Software as IEC 61131 or IBHSoftec PLC as SIMATIC S7® compatible PLCs can be chosen. As communication networks PROFIBUS-DP, CANopen or DeviceNet master are supported.

To program the three PLC types the programming environments CoDeSys, MULTIPROG Express and S7 for Windows® are offered as freeware. Dependent on the type of PLC the target's USB or the Ethernet interface can be used for configuration. CoDeSys and ProConOS can be combined with any communication network, the SIMATIC S7® compatible PLC with PROFIBUS-DP only. This type of PLC can be used in conjunction with Siemens original STEP7® engineering tool.

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COMPETENCE IN COMMUNICATION

netPLC

Implementing PLC technology transforms any netX controller based device into a full-sized automation platform. Logic controllers of the lower and mid-range performance class can be realized to control local I/Os and decentralized I/Os with fieldbus. Between different hardware options with different characteristics of a classic PLC can be chosen.

A serial FLASH component serves as storage medium for firmware and configuration and a SDRAM to execute the PLC's program. In an advanced version an MRAM component serves to store online data non-volatile. The optional real-time clock enables the programming of PLC programs needing date and time stamp information.

As programming interface USB and Ethernet can be used. The supported operator mode switch in the positions RUN/STOP allows to change the PLC's mode on-site. 4 LEDs may serve to visualize PLC and bus state information. The support of removable storage media such as SD or MMC card enables moving a saved configuration into a spare unit in case of a device failure.
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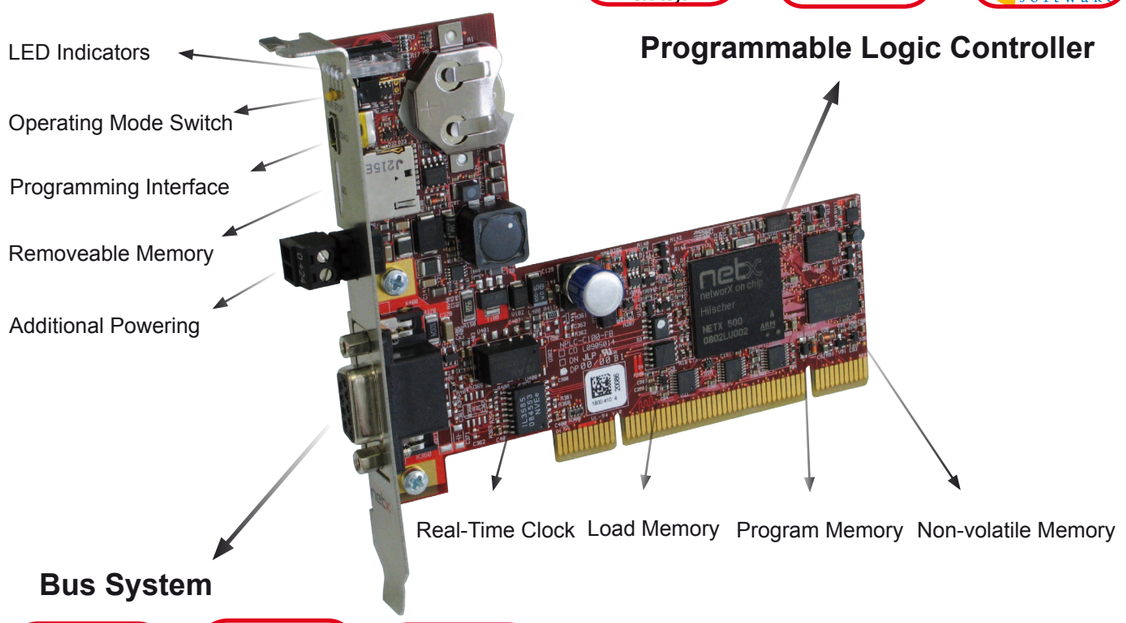
CoDeSys IBHsoftec KW software

Programmable Logic Controller



CANopen DeviceNet PROFIBUS

Successfully realized: Slot PLC PC Card

A Slot PLC enables a safe and independent control of decentralized I/O peripherals with a PC platform. Shifting critical control processes into the card allows the usage of the full PC resource for data-intensive visualization, monitoring and logging purposes.

Depending on the PLC an OPC server is included in the delivery or optionally available. Programming, configuration and diagnostics are locally performed via the PCI system bus or from remote via the USB port or over an Ethernet client/server based connection from another station.

24 V DC additional powering supplies the card in case of a PC power loss and guarantees continuous operation and maximum availability of the controlled system. The battery included in the delivery buffers the Real-Time Clock and a RAM to save volatile key process register online in case of a total power loss. In the event the hardware fails, a memory-card slot enables moving the loaded data into a spare unit in seconds with a micro SD card.

Technical Data

Parameter	Value
CPU	netX 100/500
Load Memory	4 MB serial FLASH
Program Memory	8/32 MB SDRAM
Remanente Memory	128 kByte MRAM or 256kByte SRAM, battery backuped
Supported Bus Systems	PROFIBUS-DP CANopen DeviceNet or others
Local I/Os	up to 78 E/As, Address/Data bus alternatively
Analog inputs	6 ADCs, 10-Bit resolution

Parameter	Value
Other Peripherals	SPI, I2C, UART
Programing Interface	USB or Ethernet
LED Indicators	LEDs SYS / APL / COM0 /COM1
Operating Mode Switch	State RUN/STOP
Revmoveable Memory	MMC or SD
Operating Temperature	0 ... 55 °C
PLCs	CoDeSys Control V3 ProConOS eCLR S7
Operating System	Windows XP,Vista, 7

Plug-in Module

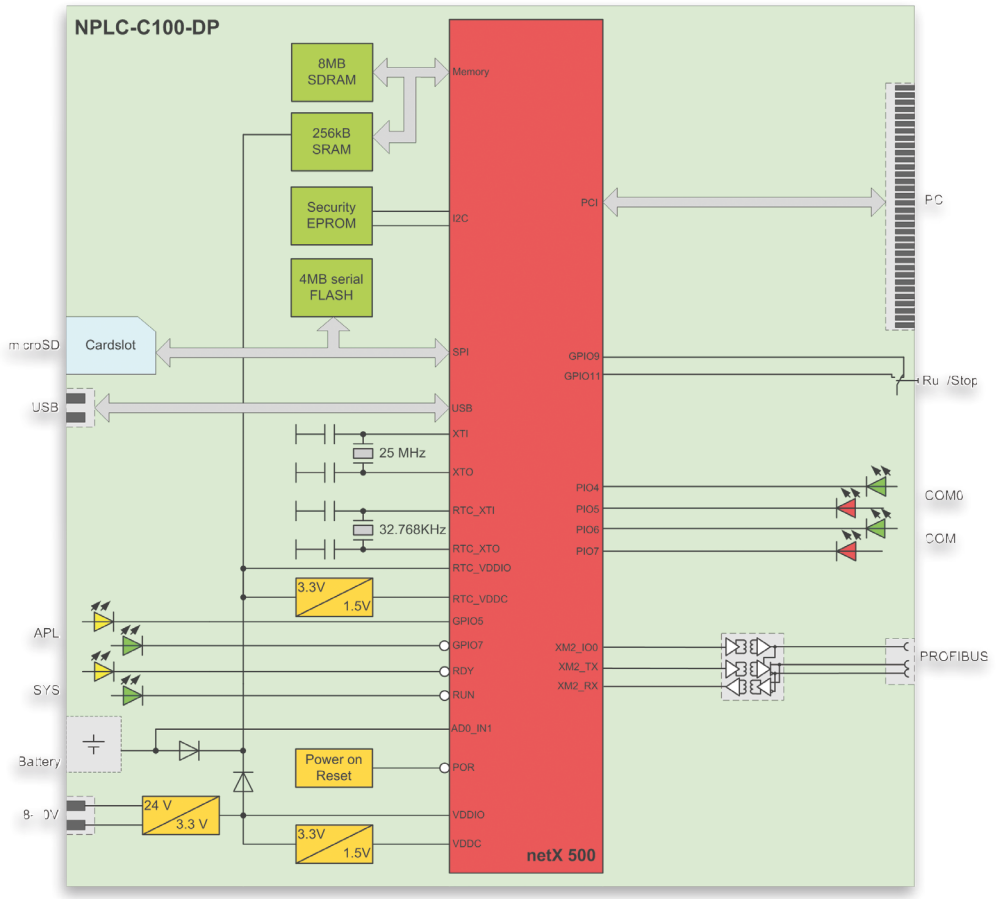
Slide-in Module

DIN rail Module

Mini PCI Express

Technical Data/ Product Overview

Block Diagram Slot PLC PC Card



Overview

Article Description	Article
NPLC-C100-DP/CDS-OPC	PC card with IEC-61131 compatible PLC CoDeSys from 3S, OPC server and PROFIBUS-DP master
NPLC-C100-DP/S7	PC card with STEP7® compatible PLC from IBHsoftec and PROFIBUS-DP master
NPLC-C100-DP/CLR	PC- card with IEC-61131 compatible PLC ProConOS eCLR from KW-Software and PROFIBUS-DP master

Note: All technical data can be altered without any notice.

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11/2011 GB