EPPC-405-UC
Embedded PowerPC, 2x CAN & 2x USB

- PowerPC IBM 405EP
- fast Ethernet 10/100BaseT
- USB host, CAN and serial interfaces
- strong aluminium case

PowerPC Device
The EPPC-405-UC is a stand-alone PowerPC in a slim line aluminium case without fan cooling.
The powerful IBM PPC405EP with 133 to 266 MHz enables a performance of up to 375 MIPS. The board is equipped with up to 64 Mbyte SDRAM, 1 Mbyte NOR-Flash, up to 128 Mbyte NAND-Flash and a CompactFlash slot.
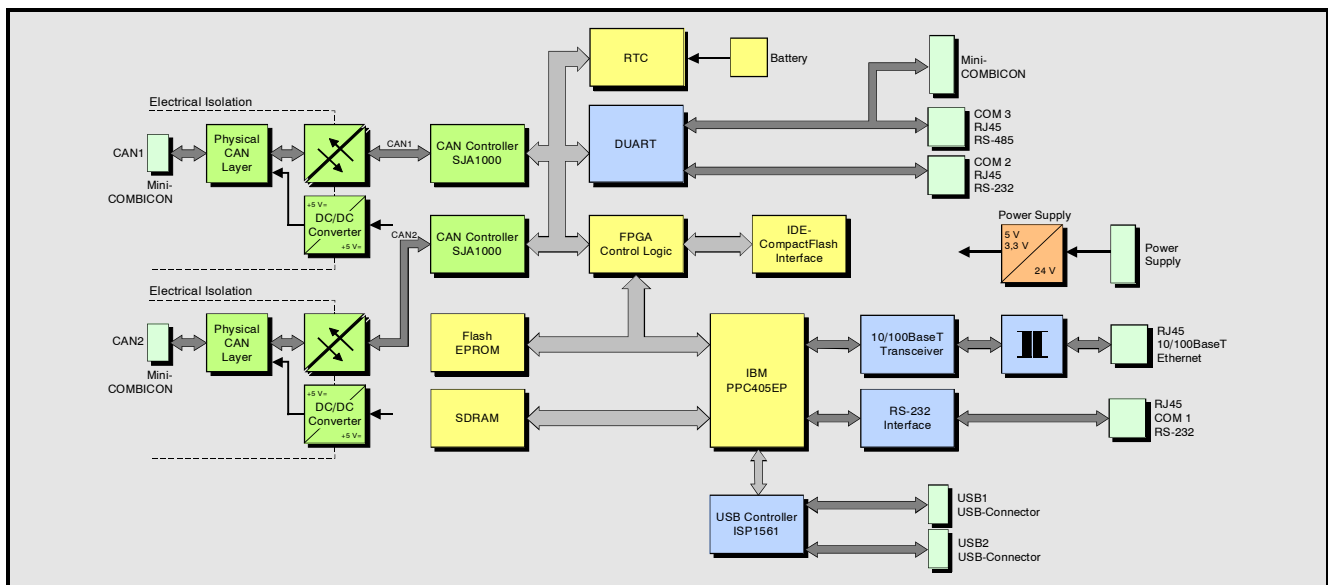
Network Interfaces
The EPPC-405-UC comes with an ETHERNET interface for 10 Mbit/s and 100 Mbit/s networks. It is accessible as 10/100BaseT via RJ45 connector in the front panel. The EPPC-405-UC provides 2 CAN fieldbus interfaces based on SJA1000 CAN-controllers with transfer rates up to 1 Mbit/s. The interfaces are designed according to ISO 11898 with electrical isolation and Mini-Combicon connectors. It provides 2 USB host interfaces and 3 serial interfaces (two RS-232 and one RS-485).

Software Support
The NOR-flash memory carries an universal boot loader (U-Boot) that enables the EPPC-405-UC to boot various operating systems

from network, on-board Flash or CompactFlash. Thus Linux and VxWorks are directly supported, others on request. On board peripheral drivers are supported by esd. There is also a bunch of higher layer protocols like CANopen as well as an on-board web server available. With the optional IEC61131-3 programming and run-time system CoDeSys the EPPC-405-UC acts like a PLC. Please ask for our CoDeSys flyer.

Technical Specifications:

Microcontroller and Memory:	
Microcontroller:	IBM PPC405EP, 133/200/266 MHz, 32 bit
Memory equipped:	32 or 64 MB SDRAM, 1 MB NOR-Flash (boot loader), 32 to 128 MB NAND-Flash EPROM
CompactFlash:	type I, 3.3 V, 'True IDE' mode, slot internally accessible only

Interfaces:	
ETHERNET:	10/100BaseT, IEEE802.3, RJ45-connector
Serial:	2x RS-232 at RJ45-connector, 1x RS-485 at RJ45-connector
CAN:	controller SJA1000, CAN 2.0A/B, electrically isolated, 1 Mbit/s, ISO11898, Mini Combicon, option: fibre optic interface
USB:	2x USB 2.0 host at 2x USB connector

General:	
Ambient temperature:	0...50 ˚C
Power supply:	24 VDC / 300 mA
Dimensions:	190 x 105 x 40 mm

Order information:		
Designation		order no.
EPPC-405-UC	IBM PPC405EP, 200 MHz 32 MB SDRAM, 32 MB NAND-Flash, 2x RS-232, 1x RS-485, 2x CAN	I.2005.02
EPPC-405-UC-CoDeSys	CoDeSys programming system	I.2005.33
EPPC-405-UC-Linux	Linux operating system	I.2005.32
EPPC-405-UC-VxW	VxWorks operating system	I.2005.31
EPPC-405-ME	English user manual	I.2005.21