

# EPPC-405

## Low-Cost 200 MHz PowerPC Computer

**Not recommended for new designs!**

- PowerPC IBM 405GP
- 10/100BaseT ETHERNET
- CAN & RS-232 interfaces
- strong aluminium case

### PowerPC Device

The EPPC-405 is a stand-alone Power PC in a strong and compact aluminium case without fan cooling. The powerful IBM PPC405GP with 200 or 266 MHz enables a performance of up to 375 MIPS. The board is equipped with 16 or 64 Mbyte SDRAM, up to 8 Mbyte Flash and a CompactFlash slot to carry various memory cards. A non-volatile NVRAM enables the EPPC-405 to save valuable process variables during power off sequences.

### Network Interfaces

The EPPC-405 comes with an ETHERNET interface for 10 Mbit/s and 100 Mbit/s nets. It is accessible as 10/100BaseT via RJ45 connector in the front panel.

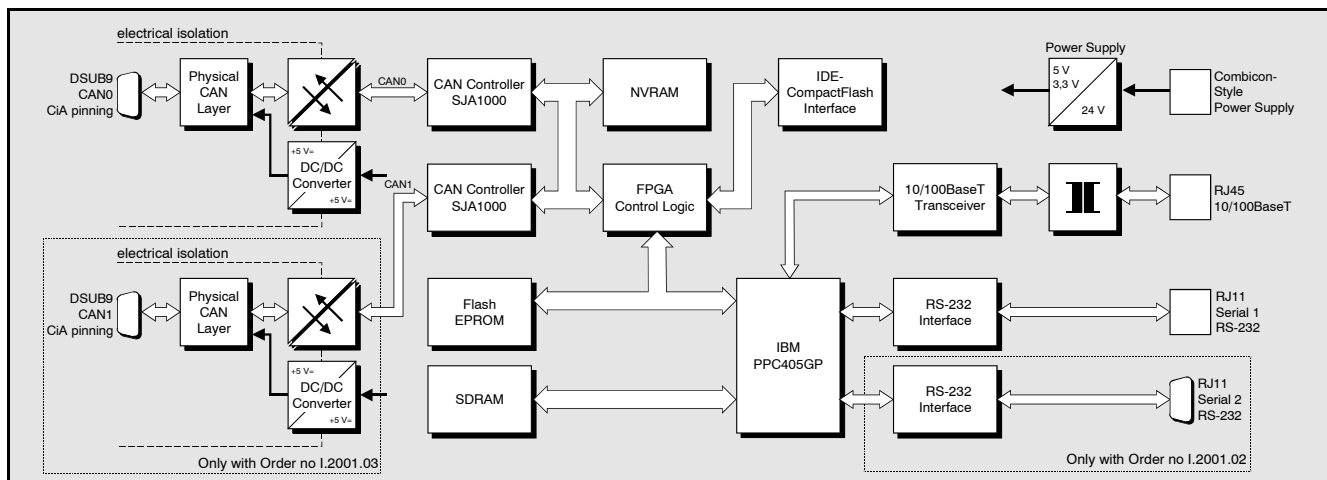


The EPPC-405 (I.2001.03) provides 2 CAN interfaces based on SJA1000 CAN -

controllers with transfer rates up to 1 Mbit/s. The interfaces are designed according to ISO 11898 with electrical isolation and DSUB9 connectors. With 2 CAN interfaces only one serial interface is equipped. The EPPC-405 (I.2001.02) provides 2 serial interfaces as RS-232 via RJ11 and DSUB9 connector. With 2 serial interfaces only one CAN interface is equipped.

### Software Support

The flash memory carries a standard ppcboot and enables the EPPC-405 to boot various operating systems from network, on-board Flash or CompactFlash. Thus Linux and VxWorks are directly supported with full support of on-board drivers by esd, others on request. There is also a bunch of higher layer protocols like CANopen, DeviceNet as well as an on-board web server available. With the IEC61131-3 programming and run-time system CoDeSys the EPPC-405 acts like a PLC. Please ask for our CoDeSys flyer.



### Technical Specifications:

<b>Microcontroller and Memory:</b>	
Microcontroller:	IBM PPC405GP, 200/266 MHz, 32 bit
Memory equipped:	from 4 M x 32 bit SDRAM (16 MB), up to 16 M x 32 bit SDRAM (64 MB), up to 8 M x 8 bit Flash EPROM (1,2,4,8 MB), 32 KB NVRAM
CompactFlash:	type I, 3.3 V, 'True IDE' mode, slot internally accessible only
<b>Interfaces:</b>	
ETHERNET:	10/100BaseT, IEEE802.3, RJ45-connector
Serial:	1x RS-232 at RJ11-connector, 1x RS-232 at DSUB9 (only at I.2001.02)
CAN:	controller SJA1000, CAN 2.0A/B, electrically isolated, 1 Mbit/s, ISO11898, DSUB9, option: fibre optic interface
DeviceNet:	acc. to DeviceNet Communication Model and Protocol rev. 2.0 (option)

<b>General:</b>		
Ambient temperature:	0...50 °C	
Power supply:	24 VDC / 300 mA	
Dimensions:	105 x 55 x 200 mm	
<b>Order information:</b>		
Designation		order no.
EPPC-405	IBM PPC405GP, 200 MHz, 16 MB SDRAM, 4 MB Flash, 2x RS-232, 1x CAN	I.2001.02
EPPC-405-2	as I.2001.02, but 1x RS-232, 2x CAN	I.2001.03
EPPC-405-VxW	VxWorks operating system	I.2001.31
EPPC-405-Linux	Linux operating system	I.2001.32
EPPC-405-CoDeSys	CoDeSys programming system	I.2001.33
EPPC-405-ME	English user's manual	I.2001.21